

<213> Glycine max

<223> unsure at all n locations

<400> 26870

aaaaattgaa cttgaaaact tcggacatct cagcactnaa gctcgaaccc ggagagccta 60  
tctagacgac cgcgaggcat ttagctttga tntacttcaa cggggaatgc agccatacta 120  
ggagacatcc aaccaatca ccctcactaa taacatactg tataaatact ctaaagccct 180  
aataagcata ctacatagca ctggacacaa ataaaatatt aatcctcgca tactagggtca 240  
ttgcatgggtc agagatatat gacctcgacc cctacacact acaattgtcc aatatgatgc 300  
gcactaacgg ctacggagac aacgcattca tcccaacaca acaccaaagc agactggctg 360  
ccggatcgac aaccgcccta ccgacgcaaa tactcattgt gtactaacca caccataacc 420  
atagccgcct tttaacacac ctccaacggg gataaatacc g 461

<210> 26871

<211> 383

<212> DNA

<213> Glycine max

<400> 26871

tattattatg gtgagtgaat agcagagtat ttatcaactt ctcacgctgt ttagagaggg 60  
gaaggataga aggatgaata ctgactataa gtaattgcct tctaaggaga gcacacaggt 120  
agtctgaaca gctgccatgt attgtttggg cactgggata agccactctc atagaccatg 180  
gaatgattag cgtcaatgat gacaacaact aactacacgg tatatatata tatagatata 240  
cctacattga tacagactta tctatatgtg aagctaata tgactccgat ctgaggacta 300  
aacgttatca tgagggatag aatgatgagg acatgaccga gacatgggagc acgatccact 360  
tgaaagacta ggatgaccta tga 383

<210> 26872

<211> 257

<212> DNA

<213> Glycine max

<400> 26872

tttagcttgt tccccagctc ggccaggcga gctaggttgc ttcctccaga agcaaccgcc 60  
ttctggagga atattctaga acgtccaagt gggcctggat tctatttgca ccctattttt 120

tactaaatac acccccttgc tctctttttg gtaattcttt ttcgtaacgt tacggaactt 180  
 tacacatttc gtaacaatgc ttgcattctt tccgtaatgt tatgagacct tacggatgac 240  
 gtaatcatcc ctttttt 257

<210> 26873  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 26873

tgaagggaca accacatttc ctactcacat tgcctctact aacgaattct ttattcctac 60  
 acttgtacag accactcctt tcacacccaa ttaacacaga tgaacttctt cctctgctac 120  
 cagtatctgt gtcaaacctc ataccactg caacaaatcc attttcatgg gcaactgttc 180  
 aagcccacta caaaacatca tctcgagtac cagagacctt caacgcaact ccgacatatt 240  
 aatttttata caaaacatac gttcgaccaa atgactcata ctaatgaaca tgattacctg 300  
 acaagtattg aaagcattcg aacaatcaaa atgtggttca ttcacaccaa attcttcttc 360  
 attctcataa tctatatgaa cttcttgtga catcgctgta gaagcaagct tcatgatgat 420

<210> 26874  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26874

tcagcttttt gctttctgga tgcattgggt aacttgga cccagctggc cttgaatcac 60  
 aaatttgtac ctgtcacaag gggttgcggtc ttgcgctcct ctgctgacca ccatacaaac 120  
 ctttgccatt ccattgcagca acctggagca atggagcaac ctgaagctaa tgctgcanat 180  
 atatactata gacctctcta acctcaacat cttaatcaac cacagcagaa caattatgac 240  
 ctttctctct tctgagacaa ccct 264

<210> 26875  
 <211> 420  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 26875

tctacttatg tggcagggcg ggcttccttt accttncttt ctccaatgcg aactttgacc 60  
 attgttcttc cttcccacaa tgcttctttt catgtctgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgagtatt tatcaggcta gttatgccgc cgttgttttt 180  
 tcctaaaccc atcccgggtt caaaaccgtt ccccaacata actcggggcca tcattaccgc 240  
 tgcacggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat ctctctcgcc tgacacgatg accaagtgcc cctccactac 420

<210> 26876  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26876

tctagctttt gaagaaagtg atgaggtaca agccctaaag gcagagcttg aaagagcccg 60  
 agtagtcgaa gagaagttca agtccatagc catcaaagtc tgaaaagagt atgatgaact 120  
 aagggacgtc aatatggcca ccgctgaagc cttggaacga gaaaccaaga aggcccgaaa 180  
 ggaagaacac gtgccagcaa agttttgagg ggctttataa ggcagcaata gtaagctcaa 240  
 gctccgaaga ggtgaaagga atcatcacgg gtcaaaggca tgatcttgaa ggacgagcta 300  
 aaggcttacc ttatgtcgaa nagaaatttg tcccaacagt taagcgagac tgaagggaat 360  
 atgtgggccc tcacgatga g 381

<210> 26877  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26877

tcacatgtta cctatggtgg agtatgctat cntaaaatta tttgtgttgt gatgaagtgt 60  
 ttgaattgag ctatctataa tgtgatatca cattatatc gttagaaggt gaaatataat 120  
 aaatcacact agaaggggggt tgaatagcgt tagtcaaaat ataaaacttt tttgaaaggg 180

aagatgttta taataaaciaa gtttataaaa ccctctccag tgactaaaag tggattgtag 240  
tccaatgatg tataaaacat attttttagt gaaaaccttg tttgcagaag gtaccaatga 300  
tggactttga aatactttta taagctaaaa aagagcaata aaaatacttc attttatact 360  
ggttcactca acccgaggta cgtcaagttc tttacaaacc agta 404

<210> 26878  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 26878

tttgcattgt agcttttcat acattgtctc atgtatTTTT ttgaccaca agagtTTAAC 60  
atTTTgcttt cacattctta tcaatgtgaa acagacacaa caagttagtt atctcgggaa 120  
acacaatttt cactgcattc atcaatgtta aatctctagc agtaacaata actcgagaga 180  
ttgcatcatg tctcataaaa atacctctaa actattcaag agcctagata acattgttta 240  
tatcttctcc tttcaaatac acaaatgcag ctaaaaatgt catcctaggt gtcacactaa 300  
caatgtcaaa ctaacgacaa ataataaat ttcatacata tagcatatac agattgacgt 360  
ataataattc atacctctct ctatatat 388

<210> 26879  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26879

tcaagaatta tggcctcatt ttactacctg tttcccgatg gaaatnctat aaatagacct 60  
cccattctta atggagtggg ttatcactac tggaaaaccc gcatgcaaatt ctttatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gctgcaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
gtacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300  
tttaggggtt caaattgtaa aagtgtgtaag gatatgtggg atacactaca agtaacacat 360  
gaaggcacia cagatgttaa aagatctatg ataaacactt taactcgtga atatg 415

<210> 26880  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 26880

tagcttttct gtttcccatg ctcatcataa caaagatcca caaactattg atcctttcat 60  
 actagagaat caacgtttcg cacaacaat gtcattgtta tgatgtaagg cacagagtgt 120  
 gatttggtt gtgcaatgtg aagtatgttg agagaaaagg agagaaccag agagagaagt 180  
 tagagagagt ttagagaaag agatctttga cgtctcgtag tattgagtta tgttgcgtct 240  
 cttttttgtg attacataat gtctaattat agtggctacc ttcgtagtgt tatcagtcac 300  
 gtgacttatc ataagtattt gaatcaaata tcttattcta agaggtaca 349

<210> 26881  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 26881

gtgatggtgt cgagaagtat tcacatgttt gtcacatctt taaaggggga gaatgtgaat 60  
 gtatgtatac atgattttga tgatgtcaaa agaaaaatca aacaaagtgt cttcaaaaga 120  
 taagcatggc ttcaagatta atacaagatt gcttcaacaa acaaagtctt gcttaaagat 180  
 taactcaaga tcaagccttg ccttaaaaca aagtgtttc aagacattca aggctctggt 240  
 aatcgattac caggcagtgt aatcgattac cagaagacag gggtgagaaa tagctgttga 300  
 aaagggtttt ggaattgaat tttcaagatg taatcgatta ccatatgtct gtaatcgatt 360  
 accagcaacg aaactcctga gattcacatt caaaagtcac gacccttc 408

<210> 26882  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 26882

tccttcaatt ctggaatcaa ttgccatttc agttgagata tagccatcat aattgatttg 60  
 gaaagagagt cagcaactac attctctttt cctggcttgt actcaattgt gaaatcataa 120

cccgatcaact tatgtatcta gttctgttgc tcaagagtgt gcacaacttg attatttagt 180  
gatctgagggc tcttttgatc agtcctaata gtaaatttgt gaccaagtag gtagtgtcta 240  
aatttagcta tgggtgtcgt aatagcaaag aattcccttg catatgctaa tttttttttg 300  
cattctcgca ttcaattttt ttgaaaaata agcaatagga tgggtgcattt ggctcataat 360  
agcagctaga ccaattccag aagcatccgt ttctaagggtg aatgggtgtg aaaattatgg 420  
taaagcca 428

<210> 26883  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26883

agcttgtcca gagtttgaat ccacagagga aatgcttacc acctcaaaag actggaaagc 60  
ggnttctaata gactcctctg cggcctccac ataaggcata gaggatgggc agtcaccaa 120  
gatgttttcc tcgcctaata cgatgaccag atgcccttct actacgaatt tcaacttttg 180  
gtggagtgtg gaggggaacaa ctccactga gtggatccac ggacgcccc aacagacagct 240  
gtaggggggc ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggccatctctg 300  
tactgggagg tcgatctctc ccctaacctc tcg 333

<210> 26884  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 26884

tctcccccaa ttttctataa atagggggag aagtgatgtg aaaaatgtgt tcagcccctt 60  
aggcacttct ctctctttcg aatttgcttg gaaaaattgt ttccgtgaag aaaatttaag 120  
ccgaggcgct tccgaaacgt ttccgtgagg aatttcgcaa aggtttcgac cgttcttcga 180  
cgttcttaat tcgttcttca ttgttcttcg atcttcaatg ggtaagtacc tcgaactaag 240  
cttttcgatt cattctatgt acccgtgggtg gtccacattg tttttcgtgt atttttattc 300  
tcgtttcatt tactttttat accccctttt gacgtgctta agccatttta tttaagtcac 360  
ttctcgctta aactaaaaat aaaataaatt tccaccgatc gtttgaattg tattatccgt 420

taacttc

427

<210> 26885  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 26885

agctttttga tgattcaaaa atgattcaaa ggtgttttga agataacaat gatgacaaca 60  
aaagatgatg acaaaggtga tgaacaaaaa gctcaaaaga tcaaagaaca actcaagtga 120  
atcaaagaac atctcaagag aatcaagaac aagtcaagag ttcaagaatc aagaagaatt 180  
caagactcaa gaagaaagcc taatatcaag aatcaagatt caagattcaa gatctcaaga 240  
atcaagatca agattcaaga ctcaagattc aagaatgaag aaaagactca atcaagataa 300  
gtattaaaaa gttttttcaa aactttgaat agcacatgag tttttgacaa aacctttacc 360  
atacatgttt tactcact 378

<210> 26886  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 26886

aggatgcttc aatggaggaa aaaagagagg gagttataga gatagggggg atctcgaaat 60  
tgaaggaata aaagaggagg agaagtggaa ctttgaagta tgtctcacia gactttcatt 120  
catcagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaca 180  
agttttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240  
agcttagcta cacacactcc tctcataact aagctcacct cttgagaag cttccttaag 300  
aagattccta aagaaattag agcttagcta cacatacctc tctaataagct aagctcacct 360  
ccttgagatg agaagttaga gcttagctat acaccccta taatagccaa gctcaccccc 420  
atgacaaa 428

<210> 26887  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 26887

agcttgtatt gatttggctt gatgagggat cgaggcttag taatttaggc tacaacatat 60  
aacacatgag aaattgatta gagaaatata ttgagacaca caatttcgtg ctccttctct 120  
ccctctccct cactcatct tctccttct tcaagctctt atccatggct tcctatggtg 180  
gtgagcttct tcttgactca tcttctgctt gaagtggcat ctccaatcat atttctttct 240  
tctgtattcc actgccatta aactaccaga agccaaagac tccattgatg aaaaagatcc 300  
aggcctacaa gctccacatg gaagttacat catgctggat caagagcatc ttcggctaag 360  
tgatggtctt ttgctt 376

<210> 26888

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26888

tgtaggatta tggggcaccc atcacatgtg gtactatgtg gcagtctttc gatggtgcac 60  
aacaagtttt ccacatctc aaatcgcgca taaatccacc atccctgtc gccacctcc 120  
aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca cggggtcccc 180  
atcaatctc ccaagcttcc ccaacatcca agtaaaacaa cattcaaaaa gcacaaacta 240  
tcacagccaa gaaaatagag caaaggcaga aaactctgcc aaaacaccaa ccgaaatcac 300  
agcttttctc acttaaagac ccagtaaca attccttcca tccaattcgt taaccgttgg 360  
atcgactcca aaattttact ggaagtctct attacataag cctacattnt gaccgttggg 420  
atctactagc a 431

<210> 26889

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26889

agcttttaac gtatattgag aaaggatttt ctactttaaa gaaaatagtg atttgtggga 60  
tcttttagtt aaggatgtg acttttttta caaaactgat atcaaataaa aaattatata 120

agtttttcta aaaatggtaa taaaaaatta aaaactataa aattttaaag gataaagtga 180  
 ttgctcatta aagaatttgg tctagacagc agaatgacat gattgctcat taaagaattt 240  
 ggaaacagaa atatcattcc ttccccttag aatttttaaat ttatcattaa aaaataaata 300  
 aagatagact cttggaataa agtaattntt tcagataaaa aaattactaa tgactntaca 360  
 agaatttaac caactactaa tatgaaattc t 391

<210> 26890  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26890

tgttaaatta gatagattcg atggtaacat gctgcttatt aaattttctc ttctcattca 60  
 gtgagttttc agtgttcatc taacatttaa gaaaaagtga ggggcacaat ttctttaaca 120  
 tatacttatt cctacataaa tagaattaga aaatcataag ggatcaccat ttattattta 180  
 acgtcaaaat ttgaactaac acttatgtaa ttaacgaaat actcaaattc ataaatccaa 240  
 aaaaaaatag attattatgt taaattaaaa ataaatataa aagaaaaccc agtgtataca 300  
 aaaaatatat tggttatgat gattaaaaaa tatgctgcta tattctttnt aacagacaaa 360  
 ataagatttg taataatcac aagaaattat gataaaagcg ggacagtaga gagtacagca 420  
 t 421

<210> 26891  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26891

ggcaattcag ctcggaacccg agatcctttt agtcgacctg aggcattctg ctttgtcttg 60  
 aaccaaagaa acaacacatt tctatnttgt gaggatgaaa aacatactga aaattttgca 120  
 aggataaatt ccaaacattt tgatatttat aagaacaaaa aatatatttt agccttgttt 180  
 ttattgttaa aaaaaaaga gaaatgctac taacatactc tttaacacac tccttcatac 240  
 acactttctc ttatgtgtta aaatgtattt agctgaagaa caagttccac aaaatcttga 300

acctaccaag tgtga

315

<210> 26892  
<211> 343  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26892

ntgccccttg ctcgtgcctt tagccatcat cttactttta tgggnaattc tgaaaccac 60  
cataggtata cattcttgtc tccaactatt gtagtctatt gataacataa aacgacaaaa 120  
cgtatggact ttattcggct gatcactagg cagcactact ccattatcta tccatctgaa 180  
gccgaaccta tgactactaa cggcatagat ggaaccctat acttattgaa tatattataa 240  
ccctagtatg atagtctcga acaagttatg ttgatgcagc ggatcgtaaa tgacgaaata 300  
tggttcttgc tgcaagatct tgagacgata tgatgaacca cct 343

<210> 26893  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26893

tctagctnct gcttcttacc aagaagagag tgatcaggag gattcgattg aaatagatga 60  
agatgatgat cttagtctat ttgtgaaaag attcaacaaa ttcctaagag tcagggggaaa 120  
tcaaagtga ccaaactttg aacaaaaaag acaggcaaaa gattcatcct ctactccaaa 180  
atgggtatgaa tgccaccaac ctgaacatct gaggggtgat tgcccgatct tcaagaaaag 240  
aatggagaaa tctgaaaag 259

<210> 26894  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 26894

tattaattta tataattaga ataagaatat ttacatatt tacattaaat ttacataatt 60  
tgtatacttt acatattaat tgattgatat aattatattg atttatataa ttagaagaaa 120



aataatttgt atattaaaa caatttaaaa aataatatat gaatataatt aatatattaa 180  
 tttattgaac ttaattataa attaataaaa ttaaaataaa atatgcaaac tatttttaaaa 240  
 aatataaaat aaaattaaaa atattttttat aattgttaac tattgatata taccaaataa 300  
 tgtttacaat attgactaga catgaaaaat attttaataa attattactt tttcaataaa 360  
 aggtcaatta atagtgatga aagaataaaa attatttatt ctagaaaata g 411

<210> 26895  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26895

agctttttgt ggacatttct gcccttctat catatttgta tttctttgta ttgtggaata 60  
 actttcacgt gcatgtgect aaagtaattg gttatgtctc agtgaattga aacattcaga 120  
 gtaatacata tattgtcctt ctatatactt atatggctat ttgcttccac tgggatgttt 180  
 tgcagttttc ttattttttc ttggatctcc ttgatttga tgaggaggct ggcatgatcc 240  
 agaagtcaac taaccaaact gatcaaatg agaatgctga ggaacaagct aatgatgagt 300  
 caactaacca aactcttatg ccangtaaat acaatggaaa tattattatt attataatat 360  
 ttt 363

<210> 26896  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26896

gcttcgagaa ggatgaggta caagcccttt ggcagatctt gaaagagcct gngtagtcga 60  
 agagaagttc aagtccatag ccatcaaagt ctgaaaagag tatgatgaac taagggatgt 120  
 caatatggcc accgatgaag ccttggaatg agaaaccaag aaggcccgaa aggaagaaca 180  
 cgaccaaaga aaagttttga ggggctttat agggcagcaa tagtgagctc aagctccgaa 240  
 gaggtgaaag gaatcatcac gggtaaagg catgatcttg aaggacgagc taaagggttg 300  
 ccttangtcg aaaagaaatt tgtccaaca gttaagcgag actgaaggga atatgtgggc 360

catcatcgat aagtgcaaag agaagctaaa tctagcggcg actcacgagc aaag 414

<210> 26897  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 26897

agctttttgtc cctgagaaac tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60  
ccctagcctt gcaacaagtt ctagggaagt agacaaggag atggacaaga aaatccgcag 120  
tatcgtgagt agcattttga aagacgcctc tgttcctgat gctgggtgaag atgttccaac 180  
atcttccacc ccgaatgttt ctgtgccgga tgttgagaaa gatgttccaa catcttccgg 240  
gccaaatgct gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300  
agcgacaaag gagaccctg caccaagggc acca 334

<210> 26898  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 26898

tcaacatcag accacttcca ggggtgctggc actacttttc tggacttgat ggggcctatg 60  
caagttgaaa gccttgagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120  
tttacctggg tcaactttat cagagagaaa tcagacacct ttgaatattc aaagagttga 180  
gtctaagact tcaaagagaa aaagactgtg tcatcaagag aattaggagt gaccatggca 240  
gagagtttga aaacagcaag tttactgaat tctgcacatc tgaaggcatt actcatgagt 300  
tctctgcagc catcacacca caacaaaatg gcatagttga aaggaaaaat aggactttgc 360  
aagaagctgc tagggtcatg cttcatgcc aagaacttcc ctataatctc tgggctg 417

<210> 26899  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26899

tcaagcttgt ttctacaaat cactgctttg tgcaaggtct ggggagttca ctctgattcc 60  
 ttgacccatg agagattgag ccccgccatt gatttggcgt atgttaaaaa gaattgctgg 120  
 aaccttgatg acccctcggc cacctttccg ggagcccga aagctagggg caaaggatcc 180  
 aaggcatcat cttcttcttc tactctacct ccctcttcat ccattcagac tccatctatt 240  
 cctcttgac ctacttagac accatttcca gctctctcat atgtaggaca ttcaaatatt 300  
 tcatttacac cacagatact gcactccatg ctccagagct tataccggng gtagtccatc 360  
 atcatgt 367

<210> 26900  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 26900

tgcctgtccg atgcagcaag agtgatgggt ctagttatct tggggaacgg atgccaaccc 60  
 ggaatgggtt taggcataga caacggtgac ataactatcc tgatatatgc caaaggaaat 120  
 ctgtgggaag tatggattat gctatatagc ccaactcatgc atatgtatag agaagcatca 180  
 cggaaggaa tggcggtggt caaagctcgc ggttgagaca agatagtga ggaagcccg 240  
 cataccgcat atgttgaagc tatataagcg cgggtctggg a 281

<210> 26901  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 26901

cagctcgtac ccgggaccc ctgagtcacc ttttgcattg tagcttctaa tcatgtaagg 60  
 cagaaaaaca cacataatta accacaacaa acccaacaaa tgaacaagaa ttgaagtga 120  
 taaccaatt ggtgtagttc aattggcaac acatagttga gtttgtgggg gaggacctgg 180  
 attccatccc cacagaatac attctcgggg aggggcaaag agctttaaat gtgacta 237

<210> 26902  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 26902

tgcacaagat ccatcaagac tcattggcta acatcaattc tcaacaatac cctttttact 60  
ccacttcaag catgcataca ttacttctgt cacaaaagaa ttttaattata aagcgttggt 120  
cctctctttg tcttctaaag tactacttag atatattcat gttcaaata ga tttaaatgat 180  
gtattacttc aatcagatct attatatgct aaacataagt taaagcacgc attacaaaat 240  
tttcaccgaa attacaaaat tttggtgtgt gtgtatatat aatcaaatta atgcataact 300  
tatagaagga ctaatttcaa ccaaaaaaaaa aaacttaaca cataattttt acagtctaaa 360  
tatgtcgaac ctatattttt gagtctaatt tggcaattaa gtcggtttat aat 413

<210> 26903

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26903

ttatctttta gaggaagttt caatggagga agagaatgag agagagagag agagaaagcg 60  
gcataaaaaa ttgaaggaag aaaaagagag aagttaaact ttgaagtgtg tctcacaagt 120  
ttctcattta tcaaagttat gacaagtgtt acacataatt ctatttacag cctagtacat 180  
aggaagcttc cctgagaagc aaggaaggta gcttccttgn gaagctatat gaagaaaact 240  
tccttgagaa gctagaggga ggctactcac acccttttca tagctaattct caccctcatt 300  
ccaaaataca t 311

<210> 26904

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26904

tgcattgtgt tgtgtacctt attacgtttc cgttctctta gaaaatcgat ggccaaatct 60  
ccaaacaagt gaatatcaat ttgttcagtt aaatcatatg gagaaataga gaccgtcatg 120  
attcttttctg tggacgaagt gaagtctaag ggttcattgt ttgtatataa gaaaattctt 180  
aaattagata attagctgta agtattactc agacacggca aatcttcaca tttgatagtc 240

gaccaagtaa tttacttcaa atccagaaca cttaagatta agattagagg aaaaatttat 300  
 ttttttacta gaaagataaa aatatctctt anaattaaana gttatctatt atcatagaaa 360  
 aaataagata taatcatata tttctttatt tacattatct tataaaggaa attg 414

<210> 26905  
 <211> 207  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 26905

ttcctttggc acgcattctt tgaaccgggc atgcanncaa tctcgtgaac gaagaaagta 60  
 tagggctatc gcaaatcaga aagaacttct ctgtgttgtt gtgaagcaag taactctcat 120  
 ttgctttttc cacaagaagc ctctgacagg gctcagtcaa taagttgcag agtctccgaa 180  
 tgaatatgta gatcgaacac ccgtatt 207

<210> 26906  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <400> 26906

cttctcttca tcctttgcca tatggaaaat agacattttt ttatcacctc taaaggttct 60  
 aggagcagta aaatacttac tagttgttat caactacttc aacaagtgga ttgaaacaag 120  
 accactgagg gaaattatgg ccaatgaggt ggagaaattc acccggaac atctcatttg 180  
 taggtacgac ctaccatgag ccattgtcat ggacaacaac actcaattca aagctcagac 240  
 ttacaaagaa ttctgacat gactacgcat caagcaccaa gtcattctct tcgaacatac 300  
 tcagaccaac ggtcagacaa gggcagctaa cagagtcac ctcagggttc tgtgtactac 360  
 actcaacaag tctaagtgtc tatagaaaga taagttcttc agtatactct gggcgtacca 420  
 ttgttcaccc aa 432

<210> 26907  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
 <400> 26907

agcttgatcat caatgcttaa ccaccatgga tagaatcgaa aaagcttaat gatttttttt 60  
 taatatatag taggggttct tgaccatatt gaaccccgga gacaacaatt gcttcaaaga 120  
 cagagacaag gaagagggtg ctggacaaca ggatcaacaa atgacctata gtaggggttct 180  
 tgacttagat cgaacctgag gacaacgata ttaaccaaca gaccacacaa caaatgaata 240  
 aaaggacaag agacaatgga gctgcacaac 270

<210> 26908  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 26908

taagctcttt caactgcaca aggtctcttaa tatttgaata gtatccttgt ggaaccttca 60  
 cccgacgaag aactaaca aaacttatct tctccttctt ggacaaagta tggcaggctg 120  
 ggggcaagta aattttcttc ccatcagacc ttgtatgcaa ctgtgatcgt ataccatat 180  
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240  
 tcccaatgac tctatcacag acatttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcaagatc acaccaatac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
 tttgactttt atccttcttt tgggtcttcc caaatacagt attcagggtg tcaacccgct 420  
 aatatacct 429

<210> 26909  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26909

agcttggttaa agaacttaga ataaataaag aacaagcttg ttgcacatc gttcgtgtgt 60  
 atgatatcca ctccacaagg tttgaagtaa aggaaacctt caaccctata acgcaacgtg 120  
 gcagacaaaa gtgggcagtt aacttgaatg gtcattcattg tcaatgcgga aggtattctg 180  
 cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240  
 accaatatat agatgttgtt tacacaaatg agcacatctt anaagcttac tccgcacaat 300

ggtggcctct tgggaatgga gcggttattc ctccttctga tgacgcatgg acacttatcc 360  
ctgacccaac tacaattcgt 380

<210> 26910  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 26910

atttcttctt ctctttcctc gatgggagaa attagtttct ccttatgctc ttcttgaaat 60  
ctcttacttt tatccatgtt gatcccacct aaatcaaact cttcctcttt ggatagtcct 120  
aataagtttag atcaaacatt ttcttggttag taacttagaa tccttagcaa taaaacatat 180  
tcaaagaaca catggtcatt gctaaatagg tgcatgttta gattaaaatt tagtagtact 240  
tttgttcttc caaactttaa ttcaaata gactatgtct atagcgataa gtaagagttg 300  
agttattcgt caatatttga acttgacttg atcaattaaa cttgtttgtt taattaaatt 360  
aataaaattt aagtttaact tgagtttgat tatttcaaca agtttaaatt taagttttac 420

<210> 26911  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 26911

agtgcctttac tcggtatggc tcatttttca ttaaaaggtc aaacttaaga cttgatgtat 60  
aggatttttc tagatgttcc atgggttgaca tggactgtta tgatggattt gatattcggg 120  
gggaatttca tagccaagtg gcaggtggac actatagcac ctaaacattt aaagacagac 180  
ggtcgagaag tatgtttag gtggtgtgag catccatttt catatatcaa attttcagac 240  
ttttctattg tggtccttca tggacaaact taatgtataa tcatatgcat cccttggttc 300  
ccac 304

<210> 26912  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26912

tgaagtgaaa gaaaaggag catggattag aacgtagatt cagatctaag acgcaaaaca 60  
gagcaaggaa gtcaaaaatc tcagctttca agaggatttt aggttttagga gtaatttata 120  
ggttcgtaga ggtggaggag acatccccac cactatgtaa tatgttattt tcttcttaaa 180  
gtataaaaaa gcaagcctac aaatcaatga atttttttat tttatttttg tacatgtcat 240  
tttgttgatt ttttttaggg attatatgta ttcttgattg aagggtttttt attttttaat 300  
ttaatgttgt ggtaaggat ttatgatata ttcacttttag tttagtaatg ctaataaatt 360  
attaatatat agtcacatta aattcaatta cgataactta aaattcgtn taaattcaat 420  
actaataag 429

<210> 26913  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 26913  
agcttgtctt catttggat tttattcacc cagtcttggt gctctacaca aggggtgtctg 60  
caaccttcta aaatagtatc tccttcatcc tattaaaatc aaaatgacaa tgttaaattgc 120  
tattcgtaaa aagatccctc caacccaaac aagggataaa cagagaagga aggtaaattgc 180  
gagaagaaaa gaatgtagta attgtgaaaa caacaaatta agtaccaatg aagtgatgtc 240  
aggccttggt tagggagtag gacaactaga agccaaatca gcaaattctca actatagatt 300  
cctatccatg tacattcttt aaaaaaatt catggttagt ggggctctac taaatgttgt 360  
catgacaaga gtatattcat tagacatcaa aatg 394

<210> 26914  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 26914  
gcaatttcct cgtttgggag aggcaatgct tttcgttcac attctaagtt tctatcatca 60  
tcctgtgatt aagatttcaa atatatatga atgtaagaaa gtgctgtaca aatttaataa 120  
cttaattaag agtaacaaat caaacaaaaa aaaaacagta agacaaaaat agcgcaaaac 180  
tgatttgagg agcatattga agattaaaat gctgggtgtaa atgggttgctt acaattttca 240





tctagcttta ctatgcaaag aatatccaag gaaaattcct tcatctgact tagcatcaaa 60  
 ctttcctaag ttttcttttc cattgtttta taaaaaacac ttgcaaccaa aaacatgaag 120  
 atgcgagatg tttgggtttcc taccattgaa tagttcatat gaagttttct ttaaaatggg 180  
 tcttattaaa gccctattca tgatatagca tgcagtatta atggcttcag cccaaaaata 240  
 ttttggaaga ggagtatcat ttaat 265

<210> 26918  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26918

tgccaagct aagattaaga tttgggtttt tactgnggat aaaatggata ctgccatcaa 60  
 tattgggtat aatattgtga ttatgcattt tttatattgg catctgcgtg ataattactt 120  
 atcaagttgt ttgaatatgc agtttctctt gtcgcttgct tagacaagga atgaaacaga 180  
 ttataattca tttggagatt ccagatatcc aagcattaga aaagggttga gacaagatgg 240  
 ctattgcaa ggtaaaataa atttcagcct ttaatctagg ttttcttttag aaagatgtag 300  
 tttgcatatc gaggattcta tataattaca gtggacatat taacaaattg gttttcttaa 360  
 aatatttcaa aatcctcata agatcttcat acattagaat ntagagaaag aatgaacaca 420

<210> 26919  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 26919

tctagctttt ttttaattcag gataaacagg cagttgtaac gacatgaaag gtatgagacc 60  
 taagttctga aatgcttgaa tgcaatcaaa actttcagca gaaaagaatt ccatatctat 120  
 gaatttatgg tcgatgatgg agcgagatga gaaaaggctt gagtaccgat tctgctgttc 180  
 ctaggaagat aacagtttgg aagaggataa tgacggtgga attggtgttg tggatgcgct 240  
 ggtggttccg gaacgatgag ctcttgaagc cgaatcgat gcggatgaac ctttatg 297

<210> 26920  
 <211> 371

<212> DNA  
<213> Glycine max

<400> 26920

gcttaaaggt gcgaaccac catatccatt tataacattg tgaacgcgtc tactatcatt 60  
gagataatct ctttctctga tgggtggggac gctacttgag ctgacaagtc tctccatctt 120  
tgggcatatg ctttgaaaga tccatgccct actatagcac atgttttgta attgcatcct 180  
atccgaacgc attatactga cactgcctaa ctaaggcaac cactatgtcc ttccaataat 240  
ggactcggaa gggttacaag taagggtacc aggaaacagc taccocagta agactatctt 300  
ggaaggaatg tatcagtaac ttccatcctt ttgcctatg actccatctt ccgataatac 360  
atcttttagat g 371

<210> 26921  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 26921

ctcgaccogg gatccttaag cgacctgcag cattctgctt tttaaattatt ttctaaggta 60  
gagtgcagtg ccccaactgt tagcctctcg taaagcacta ataaattctt gatcactgcc 120  
tataaatcct tttgcaaagc atgctttcct aaaagtatca tacaccacga tatcaacggt 180  
tctaattgtct atgaaagact gtggaccttt atcagacgaa agcatcattc tgaagaaaaa 240  
cgattctg 248

<210> 26922  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 26922

agcattctgc tattgaagaa ataaatttta tatgcaatga taaaataatg aaaacaaatt 60  
cagcaaaatc atgtttggct gcaaaaagta aaaacaaaaa gaagttaat ccacatgtgt 120  
tgaagcaaag gaactacata agatttataa aagatattcg catattcaag tgtcgtttgt 180  
gatatttcta cacacagata taaaggaaca attacaaata tttgttatgt tccatgcttc 240  
aatatttgat tagatacata atagtatcaa tcggtagagt ttaagcttga actacctca 300

caatacaatt tcaaagaaat ggaataagag aaaaacaaaa catagaacaa aatacaacgt 360  
 ctaaagttaa ggatatggag aaactacgat aaaaaaggag tgaggaagga gaaacaaact 420  
 c 421

<210> 26923  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 26923

agcttttttag ttttcaagt ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60  
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180  
 gtattcatag ttgcttccat caagaattgg tggctgtgtc actggtcctc cttctttctc 240  
 catgttcata agaatttata tccccagatc tcaactctgtg atttcgagtg ttggctctga 300  
 taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatca 357

<210> 26924  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26924

tcttntggac ctgaacaag caatcaactt ctctttctta accatgctat gtgctcgca 60  
 ctggtcctt tcttccctc gcaacttgag ttcatattg ctacccata gagctccgcg 120  
 aaatttggtc cggccatact ctcccttgcg agccctcttg gtctcttggt caagggctct 180  
 tgcggaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240  
 caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagcttggac 300  
 ttctttgtct tcttccggtg cttcaaaatt ctcttcgctg acgactttta acttggcgag 360  
 ccaatctaaa cctcgtatat gaactttcag ccattcgtgg taccaccaa tgatgccat 419

<210> 26925  
 <211> 300  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26925

gaactaacia tcctcaagat gaggggctg ctctagaatc ccacatggac tactcgaatg 60  
gccagactcc tgtggctcta gctgtggcca cgccttacat acagttgagc atgtcgcgcg 120  
agctccaaat gtaaaagagg aaaaaatgat gatgacaaaa cgactatcga cagcgcgaag 180  
cacatggtta actgaaagct tcggagtga atgaggnatc atgtccgcag attatgcatg 240  
gcacgaaatt acacagtatg acgatactgg tcctggactc tgtgaaaagc ttgatttcca 300

<210> 26926

<211> 336

<212> DNA

<213> Glycine max

<400> 26926

agcttatcat ttattttgaa ctacaatgat tacaagagtc acaatttagc atataatctc 60  
aagaaacaaa ttaattgtac atttgatgtt aacaagtcac acaatcacgt aaatttcac 120  
atcagatgaa acaactgatt tgttatcaag agaacaaaaa gcatgaaaaa ataagtcacg 180  
gacaacattc ataagacaaa agttaatact caatagcatg caattaccca tgaggcaa 240  
aataccacta tgtaaagaat gaatatgttt accttctttg catactttgt gttcaatgta 300  
ggaatatggt aagtagtaga gaaggatat caaaaat 336

<210> 26927

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26927

ntatatacaa attaaaaaat tattaaatag ccacaagtct agaaaaatat aattacattt 60  
gattaattta tctttttatt ttattgatat tatctcttct ttacttttat agagatgtca 120  
aaaaactaaa taaattaaaa gtggacaact aataataatt agtgtctttt tcaattgaga 180  
agggtcaaaa tacactttcc aataactaac tatctatcaa tctctatgtg tgtaattttt 240  
attaatcaaa tagctgaatt aaaagttttt attaaataaa tgaggtttat aattacttcg 300

ttaaaaaatt tcatctaag taaaatgtat ttcttaaaaa tataagtaaa agttgattat 360  
agaactacat atatacaaat attaaattta tttaaaattt aatatatcga tt 412

<210> 26928  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26928

agcttttatc caactgtaaa acttggaat aacactagaa tggctgttgt gggaaaatgt 60  
atcattcgaa tgcaagtga tggatttact caggcaattt ctggtgtcta ttatgttcct 120  
gaacttaaga gtaatttatt gagcataggg aaacttcaag aaaaaggctt gactattttg 180  
attcaacatg ggaagtgtag ggtatatcat tntgcaaaag gattaattat gcagacagat 240  
atgagtggaa atataatgtt ttctttgttg gctaccatga taccaaaagc tttctcatgt 300  
ttccaaattg tatcagaaaa tgaatctcat ctttggc 337

<210> 26929  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26929

tatccaaata attnttcatt gggtttattg ggtcaccctc tagcggacca tctgcaaattg 60  
tctagttttg caaacttacg cacaagatat cacaatcctc agtatgaggg gtgtgcgctg 120  
gaatcccaca ttactagta ttatggccac aataatgtgt atataactgg aggcaaccca 180  
tatttggggt tgagtttggc ccaaactcaa aattgtaaaa gaaattatta atgaaaatga 240  
tagatagaca atcttttagct tggattagat ggtaagtga ttgcttctgg gtggaatgtg 300  
gtctcatgtt tgcgtgttat gcagggcacg agttatgaga atatgacgat aattgtacaa 360  
aactatgtgg agagcttgat atccaaatat ccttattgga acagaacctt ggggtgctgat 420  
cacttctttg 430

<210> 26930  
<211> 334  
<212> DNA

<213> Glycine max

<400> 26930

agctttatatt gaatcactaa gtaagttgct aacttaattg catgctgtac aatctccacc 60  
ctcttctgtt ttgcagggtt taggttgtgt tatatgtggt ggagcacatg attctagctg 120  
ctgcattccc acagaagata caacacatga agtgaactat atgggaaacc agccaagacc 180  
aaactttaat tcagggtgggt attttggatt tcaacatggc cagcaatata atcagcaaca 240  
gggacagtgg agaactcacc ctagtaatca gttcaataaa gaccaaggtg ggccatctaa 300  
cagaccacag caacaagggc ctagtcttta tgat 334

<210> 26931

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26931

nttactctct ggtaatcgat taccagagga tgtaattgtt taccagtggc caaatacgtt 60  
ttataacagc tataaaaatt tgaattcgaa attttaaaag ctgtaatcga ttacacaatt 120  
gtggtaatcg attaccagca gttagtaaac gttttaattc aaatttttaa agctgtaatc 180  
gattacacaa tttctgtaat cgattaccag acaggaattt cagaaaaata atttcaagag 240  
tcacaacttt tcaaaggctt tactcatgac caccaatggg ctatatatat gtgacttaaa 300  
cacgaaattg ctcagagatt ttcagaacaa caaagtgttt atcctctcaa aaagcaattt 360  
cattttatcc tcttaaagaa ttccttggcc aattcaattg caattcatta aggaattaat 420  
tgagt 425

<210> 26932

<211> 281

<212> DNA

<213> Glycine max

<400> 26932

agctctttat gaagtacctt tttcattttg caagtaggat tgtaatatca agaagtacca 60  
aatgattgta tgaatctatt cttttgttgt gttatacaca agtccatcat actatccatt 120  
ttctactgaa aggcttctgc ctttggatac attggtgggc ataagttctt gtgatggaaa 180

caccctctat atctatggaa caatgctatg cacatgtaac cctcttacac tgcaaaatag 240  
 agtgagctcc attcactggg ctgtcaaaca tcactatgga t 281

<210> 26933  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 26933  
 ctttgataaa taacctgtca tatactgctt gagcttatct tgttagccta tccaagcttc 60  
 tttttcatta aggatcatgt ccaccttatt acaccacctt cttatggaag tgataccatg 120  
 gaagtagtga gtgttgggtt accatggaag atccacttag aatgagattt ttggtaccat 180  
 agaatctcct cctcgacaag aagtttttgg tattcaatcc acaccattct ctacttctcc 240  
 aacatcagac aattagatta gtgtttgaga tattctagag cttccttaat accttttctt 300  
 gacgaatata tgcccacaga tatgtttatt ccagatctag agcttcttct taaacatgat 360  
 aatgtgcata ttccaagaat cttgcttctg ccaattatca cccatgaacc attcaaaatc 420  
 ttcacgcgat at 432

<210> 26934  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 26934  
 agctttttat taatctccat catcaataac tttggtcttc gatctcacca aaattgaatc 60  
 attgagtgtg attgagattg gtagtcatac aaaagcacia gtaaaatctt cattgtgaat 120  
 ctttacaatt gcacctttgt taactgctgc aatcaacaat ggcatgtacc atacatgttt 180  
 cttaaaaaata acttgaattt cgtatggcat aattgaggct tcatgtgatt tcaagatatg 240  
 atgattttgt ttttgggata tgacttgtga gtattaatgc tgaatatgtc ttaagtttag 300  
 aatacttctc gagtatttaa catcttttat gtatattaaa agttggttgc tctatatt 358

<210> 26935  
 <211> 432  
 <212> DNA  
 <213> Glycine max



<400> 26935

tgctctaaat ttacattgat gtttgtatth atgggatgtt gttatatgcc atttttgctt 60  
taagagtaat gtccactgg taaaactaac tttccaaatg tttgccttcg caggaaatggc 120  
ctcgaggaag cttgcctcaa agaggtccag gaaggacaag ggggccgaag gaactagtth 180  
cgctcggag tacgacagtc accgctthtag gagcgttgta caccagcagc gcttcgaagc 240  
catcaaggga tggtcatttc tccgggagcg acgcgtccag ctcagggacg acgagtatac 300  
tgatttccag gaggaaatag ggcgccggcg gtgggcacca ctggttactc ccatggccaa 360  
gtttgatcca gaaatagtcc ttgagththa tgccaatgct tagccaacag aggagggcgt 420  
gcgtgacatg ag 432

<210> 26936

<211> 360

<212> DNA

<213> Glycine max

<400> 26936

agcttgctcg cagthtaaaa atacgaatca ttgaaatatt aaacatcttc agaaaaaaaa 60  
ggttggaactg ataatctgtg aaataataaa gagaatccat tcatcatatg atattggaac 120  
ttcattactg catgttctct tcttttgcta tgaaatgaca tccttggaagt ctatcttcat 180  
aacatgccac tagaaaatga cttgggatca agaactgtag tggtcggctt cttggattga 240  
tgthttacag thtcataata agthttgatt gacatctgat atggacatgg tagatgtcac 300  
atctatgcca atgcttcatt tgtaataaag tgcacacaca gatgtgcagg acattthaaag 360

<210> 26937

<211> 422

<212> DNA

<213> Glycine max

<400> 26937

cctgtthtagt gagaagataa tcaaaacatt thcttcttht aagctgagaa catctthcaa 60  
thgtgtctaa atattattac aactcataac caatccatag tcaaaacgac aaaagctthc 120  
aaagagctca taacattthta agthcgtgct caatatcatt ctagctcgga accaatacat 180  
attcgaaaca gcaaagtatt tcagatcatc agaacagaaa atagthccga gtgaaccaag 240

cttaatgaaa atcatcatgt tcaaggcggg agattgcaac agaagtaacg tcagttatca 300  
atggttctgt cggttcacct atattgaaaa ataaaagtta gaatataaat atttaacttg 360  
acaaatttaa ttcaatcttt ataaagaata ctttcatcat cagactccat ttcagtgagt 420  
aa 422

<210> 26938  
<211> 273  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 26938

tgctgctttt aatggttagn tattttcaaa tcataatagc agctggatcg acaccttttc 60  
atgatttgaa aagtgtggaa cagcatgtat ggtggaagac gagtaagaat atctatcttt 120  
ccaaaatctt ggagggcaat tatgcatgtg ttctggattg gattcacgat cctgacatgc 180  
tagtgtatcg tggtggagct ccgattataa gttcgacaag ttttgctgca acattcatta 240  
caaaagcaga tcagatgctt aaagtaattt atg 273

<210> 26939  
<211> 331  
<212> DNA  
<213> Glycine max  
<400> 26939

ttcaataact gatatgaaaa gtcggataca atgttttaaaa agctgaaagc gattacgcaa 60  
ttgtggaaga cgaacaccag ctatatgaac accctctgtg tcatacaata gatactgcaa 120  
tcgatcacac agtagcttgt gccgattact ggacatgtct ctctcacccc tactgactag 180  
agtcacatct cgacaaagac catactcatg accgccgatg gcatgtgtat atgtggacat 240  
aagagagata tggcgcagag atttcaaaac tcattgggga tatactgtca ccgagcaata 300  
gaattttatc ctctatgaga gatccttgat c 331

<210> 26940  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 26940

ttagcttatt atctactttt tcaaggatta aaacctttac atgaagcatt agttttctat 60  
ttaaagaaaa tgtcttataa ttaattagca tttcctttaa tttttataag aaaaattatt 120  
tgacaattaa tccttggttt tcaagacatg aaattaagaa tagtataaaa gcttatagct 180  
acatgtattg tattggctcg tattggttta attgtgattt tcaaagatag gagaatcata 240  
ctatgtgttc ttccattata tatatatata tatatatata tatatatata tatatatata 300  
tat 303

<210> 26941

<211> 415

<212> DNA

<213> Glycine max

<400> 26941

tgcagccatt agaagaaaaa gaacatgtgt tcagaagtat gactgatttt gttagtcagt 60  
ttgtcagatt gattgtgagg gaatgcattg atcgtatccc tgtgagagta tgatccttaa 120  
attttgagaa aaacgactat catttagtac tgatttttgc atgaatctct gaagtatgga 180  
ctgaatgctg gaattgagga tgatgaaggc catgttttga ttgtgatagc tacttgccaa 240  
aaagctgacc ttgtgcttga atgatttata ccttgcaccc agtttgagct gaatgaattg 300  
ttgattgatt gaaccttgag cctatacagt gttatctctt gctaccttgc cttatgttgt 360  
atgagagcat catccacaaa aaagctaggt tcatggaaaa tttgtcccat atttg 415

<210> 26942

<211> 344

<212> DNA

<213> Glycine max

<400> 26942

tcaagcttgc ttctacaatc tccccctttg tgatgatgac aaccctgaaa tcaagaaaca 60  
catacacatt ctttgtccta gtcgatcact cacttaattc tccatattct cccgctttgt 120  
tcttgagttt aaccttcact tgaaataaag ttatttaatt atatgagttc ttgatttaat 180  
tcctattttc tctccccctt tggcatcaac aaagagccaa aggtcgtaag taatataaga 240  
accatacata aatgactaat catacaagag aatagcaaac aattaacaa gataacataa 300



ttcaaaataa ttatcatcct tcattatctt atataaaaaa tattgcataa ataaaataga 180  
ataataatctt tacaaaatta aacttatatc attattaata tataaagaat ataaataaaa 240  
gaagtaatta atgttacatt acaaattaaa atattaaaat gataattatt ttaagataat 300  
taagatatta aaatgataat tatattaaag ttgagctaaa acagttatct tcattttttt 360  
tctcaacata aatatgttta acatagataa ttttttactt ttaaggtttt agagcatcct 420  
cg 422

<210> 26946  
<211> 270  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 26946

tctgcttttt atactgangg ngnnagagga gagattggtt attattatct tgtctataag 60  
atgcttattc tgccaagcaa acgaggattc cttacacaac cttgttgaac cttctttttt 120  
taccagaagt ggatttacia cactcttcta tttggatggc tgggtgtgtac ttaatgctac 180  
taattcagtt tcttgaaaac aaagtggcta tagagcttac acgagcagaa tttgttgaag 240  
cacaagaggt tggttatcat tctattgata 270

<210> 26947  
<211> 406  
<212> DNA  
<213> Glycine max  
<400> 26947

tctggtgttc tgctagcagc tccgatatgt tctgactatg aaaacgtgaa taagaacatc 60  
acaccagaa gtttaattgaa atcctgacac caaacatata cgtatacata taacatagca 120  
tatagcatag gaacctaaaa agtcacaatc atcagtttga ctataaataa cagaagaaga 180  
atcaccccc attccatata cttttcaacc tcaaaattgc ttctcatgtt tatgtatgga 240  
gaatagggcc ttgctggtga aggtgaggag atctgattgt acaaaccaga catcaattat 300  
acaagaataa gggctgcaag ttttgacag aaagactaga gacaattcaa ggtagcaaga 360  
gacaagtgaa agcgcgatag agatggggtc tggcctctaa gatcct 406

<210> 26948  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 26948

tttgcgtttt tcttgtctct gaaaaaatac aaggcatcat tgccttatat aggcggagga 60  
 caaaacggac tagaataatg acgctgtcca cttccatatt gatttaggtc gcacgccage 120  
 agttcaccac cttagactaa catccatatt cgacacaaac tgctcgctgc aatgacacaa 180  
 caacttaacc ccgacaataa acattgagcg agcttatgcg aagatcaaac ttgctctttg 240  
 gaactggcta tgagaacata tcagcaagat tgcgcataga gctaattcta tgaacattga 300  
 tgatctttat gaccgaacga agtgatatct aacatgtata tgctaggatg tatcatgatg 360  
 aacctgatcc t 371

<210> 26949  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 26949

ctataaaact ccgctatggc tgctgctggc catgttcccc ctttaacact tgtagccatt 60  
 catgctgagc tcttaggtca cccgacatat aacataatgt ctacagcgga ccaaactacc 120  
 ctactgcaaa catcaataca ggggctaata cattcccatg ctggacatgc tgcggcatat 180  
 ggtcagcctc ttgctaagag tccttcgaac attggcaaga atatctctcc atctatcttg 240  
 actggcaatg atacgacatg aggatatggt gcatggctga catctaataa tacaattggt 300  
 ttaatgagac ccaataatat tgacgaaatg gtggatgttc acaataacaa catgctga 358

<210> 26950  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26950

agcttatcac cactctcctt cataccactg gccacaccac caacaacttc agcttcgtga 60  
 atctcacttg cgactcccaa tttggcgctca tctcgatcct cttccccgca ccgtactctc 120

Parameter	Value	Parameter	Value
$\alpha_1$	0.0000	$\alpha_2$	0.0000
$\alpha_3$	0.0000	$\alpha_4$	0.0000
$\alpha_5$	0.0000	$\alpha_6$	0.0000
$\alpha_7$	0.0000	$\alpha_8$	0.0000
$\alpha_9$	0.0000	$\alpha_{10}$	0.0000
$\alpha_{11}$	0.0000	$\alpha_{12}$	0.0000
$\alpha_{13}$	0.0000	$\alpha_{14}$	0.0000
$\alpha_{15}$	0.0000	$\alpha_{16}$	0.0000
$\alpha_{17}$	0.0000	$\alpha_{18}$	0.0000
$\alpha_{19}$	0.0000	$\alpha_{20}$	0.0000
$\alpha_{21}$	0.0000	$\alpha_{22}$	0.0000
$\alpha_{23}$	0.0000	$\alpha_{24}$	0.0000
$\alpha_{25}$	0.0000	$\alpha_{26}$	0.0000
$\alpha_{27}$	0.0000	$\alpha_{28}$	0.0000
$\alpha_{29}$	0.0000	$\alpha_{30}$	0.0000
$\alpha_{31}$	0.0000	$\alpha_{32}$	0.0000
$\alpha_{33}$	0.0000	$\alpha_{34}$	0.0000
$\alpha_{35}$	0.0000	$\alpha_{36}$	0.0000
$\alpha_{37}$	0.0000	$\alpha_{38}$	0.0000
$\alpha_{39}$	0.0000	$\alpha_{40}$	0.0000
$\alpha_{41}$	0.0000	$\alpha_{42}$	0.0000
$\alpha_{43}$	0.0000	$\alpha_{44}$	0.0000
$\alpha_{45}$	0.0000	$\alpha_{46}$	0.0000
$\alpha_{47}$	0.0000	$\alpha_{48}$	0.0000
$\alpha_{49}$	0.0000	$\alpha_{50}$	0.0000
$\alpha_{51}$	0.0000	$\alpha_{52}$	0.0000
$\alpha_{53}$	0.0000	$\alpha_{54}$	0.0000
$\alpha_{55}$	0.0000	$\alpha_{56}$	0.0000
$\alpha_{57}$	0.0000	$\alpha_{58}$	0.0000
$\alpha_{59}$	0.0000	$\alpha_{60}$	0.0000
$\alpha_{61}$	0.0000	$\alpha_{62}$	0.0000
$\alpha_{63}$	0.0000	$\alpha_{64}$	0.0000
$\alpha_{65}$	0.0000	$\alpha_{66}$	0.0000
$\alpha_{67}$	0.0000	$\alpha_{68}$	0.0000
$\alpha_{69}$	0.0000	$\alpha_{70}$	0.0000
$\alpha_{71}$	0.0000	$\alpha_{72}$	0.0000
$\alpha_{73}$	0.0000	$\alpha_{74}$	0.0000
$\alpha_{75}$	0.0000	$\alpha_{76}$	0.0000
$\alpha_{77}$	0.0000	$\alpha_{78}$	0.0000
$\alpha_{79}$	0.0000	$\alpha_{80}$	0.0000
$\alpha_{81}$	0.0000	$\alpha_{82}$	0.0000
$\alpha_{83}$	0.0000	$\alpha_{84}$	0.0000
$\alpha_{85}$	0.0000	$\alpha_{86}$	0.0000
$\alpha_{87}$	0.0000	$\alpha_{88}$	0.0000
$\alpha_{89}$	0.0000	$\alpha_{90}$	0.0000
$\alpha_{91}$	0.0000	$\alpha_{92}$	0.0000
$\alpha_{93}$	0.0000	$\alpha_{94}$	0.0000
$\alpha_{95}$	0.0000	$\alpha_{96}$	0.0000
$\alpha_{97}$	0.0000	$\alpha_{98}$	0.0000
$\alpha_{99}$	0.0000	$\alpha_{100}$	0.0000

<400> 26951

<400> 26952

<210> 26953  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 26953

tgtaaaccga tggaagctcc taatatctcc tacactttcg ggggtgtcca ttcttggatg 60  
 gcgttgattt tctcagggtc cacttggacc ccatttctac aaactacaaa ccctaagaaa 120  
 actatattat ctacacaaag ggtacaattc tctatatttt catagagggt gtttttccta 180  
 aggactgaaa gaacttgcct gagatgtcct aagtgatcat ctaggctcct actgtacact 240  
 aaaatatcat caaaataaac aactacaaat atacttatga aatcccttaa gacatgatgc 300  
 ataagcctca taaagggtgt cggtgcatta gtgagcccaa caggcattac tagccattca 360  
 taaaaccaa acttggctct gaaagegggt attcactcat caccctcttt catcctgatt 420  
 aggtga 426

<210> 26954  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26954

agcttttttt gctttttatg tggaccaaatt tatcaacact tagtgagtga ggttctgttg 60  
 taagtgatga ggactctgct attgatgctg accacagtct aatgcggagg ctggatcgct 120  
 tggagttgaa catgcaggcg atgttcgatg ctacagcaaaa gtaccttgag ggcttgtcta 180  
 aacgttttgg taatgaaaaa ttatctgggtt attaagtatc tgtatgttaa ggtatacact 240  
 ttttttaagt gattaaaatt aaaagttcac tttgcttttg ggtttgcttg gtgttngatc 300  
 aatgatcatg catcatatac catgagacgc atcttgggtgc tggcacgata agggcattca 360  
 cccgcttcta atct 374

<210> 26955  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26955



ctaccctata tatagagggc cgaatattag tataaactta ttagtttatg ggagtttcac 60  
aacattttgt gtttttcagt cccaatgct aaatttcaat aaaatggctt acttgtagat 120  
gtgtttccaa accaagtttt atatatgctga atagcatcct acaaatggaa aactagaaaa 180  
gtaaatagatt aagctagagg ctcttttact gctacgaatg gaataatgaa aaagtaatat 240  
gaggcttttt cttggattgg agatgcatcg aaattttaat taccaaatga attgtggagt 300  
ttgatttgcc atctgataat ttacctactg atcaatgttt atctgcaacg gagatatgag 360  
atatcattct cactatcatt aatatgataa acatcataca actntaggat caaatatttg 420  
atatgatgg 429

<210> 26956  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 26956  
agcttttccg gaattgctgg cacaataatt cttttttttt gcagacattg tgcaattttt 60  
ttcttatttt tcaccaacgc caggcaataa ttgttttagt acgatcaagc taattttcct 120  
tgttgatttc gctcaatgat aagttttacca tcgaggctgc ctttggtatt tcgtgggaac 180  
tcaaccgccg atgtgtttcg gtcgacattg gcctgcgctg gtaaaagagg caaagaaaaa 240  
tatagccgac tttggcagca aaaacaaatc cctcgacaaa cttggatgat aaacaactct 300  
agccgacatc ggccaagaaa gattaactgt cgctgtatcc caaaaagaat caccggatga 360  
agactatcga a 371

<210> 26957  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26957

aactcaagct tgcaagacga catccaattg gcagttntca caccatgata tcaaatttat 60  
gtngatagag ttggggcttc gccttagact cggtttgcca tttgatgcca ttcaatacca 120  
tgtgcaatgg aaccctttaa ctacgaagaa tgtaacaccc taattttctca aaatgtaatt 180

ataccttaat tattttatctt cttttatctta taaagaatat tgatgaattt aagttcacaa 240  
 ttatataaac ttgggaaaaa gtgaaccgga attttattgc gtaataaata aaacaacttc 300  
 atattttcaa aaggaaagca taatgcagtt ttacttagaa gcttacttct tcaatttaaa 360  
 gtggaatata agagatggaa catatctaaa ttacaaaata tagatatgtg tgtgtgtgca 420  
 cgcataacta tttcccca 438

<210> 26958  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 26958

agctttccat attttgttaa aaactctcat tcaattcatg ctcaattttt taacataaac 60  
 cctacatttt atcagatgag tttgcattaa tgaaagacat gttactgcaa taaatacaaa 120  
 cacgacctga aatatttcaa ctaacccaaa acctatcact ctgaaactag cgcggatcaa 180  
 tagcgagcac actggagact aataaagaag agaagtactg tattgtctat cagcctaggc 240  
 ccacattcta gcaaagtgtc taattaaaat taatataggg aaataatgaa agatgtatat 300  
 attaaaaaat agtgcattgca ggtaactggt agataccagt agttcttgcc atcaaact 360  
 gataaaaatg taaatctttc atttgcattc t 391

<210> 26959  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 26959

tgctataaat atccattaag ccaaatagta agcagccttc ctattgttat tgagattatg 60  
 aacacataaa aattcatatg ttgggctaac ataaaattac gagctagctt atatattaaa 120  
 aacaaaaaca cttgaggaag ggggtctgag actctgaggt tgggtggcac aggcagttta 180  
 atagattttc atatagatgc tgaagaaaat ggagttatgc ccactcatat ttgtgtcttt 240  
 gtctaaacac agaacacgct aacaaaaaag agattaattg caatgagccc tttattattt 300  
 ttctagagac cgattctca ctgtggcatg gcatccaaat aaacagttta agagaccttc 360  
 acatcagcca tgagctaaca ctctaaaact aaaatctctt ggattacttg caagattcta 420

ccataagca

429

<210> 26960  
<211> 380  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 26960

ttaagcttgt atgtgaacgt caaaaatntg aacgttgggt aagttttcag ctataaaaaa 60  
attgcttgag aaccttgatt gtttacgctt gcatttcatt tctcctcact gagttctctt 120  
tgtgtttttt cttgagtgtg agcttgtgca ttgttgtgtg cttcttgctt tgtgctcctt 180  
ggttcaaatt tgggtgtgtg cttccttcct tcaagtgtc ttacccttac caagtaagtg 240  
ttttgaaagt aaataaaatt tatatatctt gtaataaat attataagtt taagttagtt 300  
agtattatca aatattctaa gttagttagt atgtaaata taggttagtt agtattaata 360  
aaaattctaa gtttaaatta 380

<210> 26961  
<211> 422  
<212> DNA  
<213> Glycine max  
  
<400> 26961

tagagaggaa gcttcaatgg aggaagaaat cgagagtttt aggggggagc acgaaattga 60  
aggagaaaaa gagggagaga agttgaactt tgaagtgtgt ctcacaagtt tcatattcat 120  
caaagttatg acaagtgtta cacatgcttc tatttagagc ctaggtcatt aactaaatga 180  
aagcctcctt gagaagcttc cttgagaaac ttccttgaga agctagagtt tagctacaca 240  
ccccttctaa tagctaagtt cacctccttg aggagcttcc ttgagaaatt tccttgagaa 300  
atttccttga gaagctagag cttagctaca cacacacccc tctaataagct aagctcaccc 360  
ccatgccaaa attcatgaaa atacaaaaaa gtcctacta caaagactac tcataatgcc 420  
ct 422

<210> 26962  
<211> 220  
<212> DNA  
<213> Glycine max

<400> 26962

ctttaagctt ttatccattt ctcgaaaaat catgctggaga aatgtttatt agagccagtg 60  
catacctaaa tatcacggaa gactttgatg aaattgagac gccactgggt ccgacacttg 120  
cacctgcact gaccgatggg atcccatgaa aaacaattgg agtgagctat gagaccttta 180  
atgaacctat ccgaggaatg ctcataaagc aggggctgaa 220

<210> 26963

<211> 342

<212> DNA

<213> Glycine max

<400> 26963

tgacaaacaa agctaatacga agcaagtaat atataaaatc tattattttc aaaaaatcaa 60  
tagtgcaaaa ggcatttgaa atggtaatat cttttaatat tttatattca ttttcttata 120  
agttatataa taataactca ttttttattt tgtgattgct tttatatgat atatgaaagg 180  
ttggcgaaat ttataaaggc atcatgcatt gcattatatt atttaatttg ctctttacta 240  
tatttaattt taacagacaa aagatccaat atctagttaa tgatcagatg ctgcggaagt 300  
ttggaaggcc acacacacga gatctaattg aacctgtgca tt 342

<210> 26964

<211> 285

<212> DNA

<213> Glycine max

<400> 26964

cttcagcttt ttttgatcgt ttatatttta ttgttggttac ctttaattgat gtggatcatt 60  
tatagttaag atgttggtta gagagaaaat ggaaaattat ttgagaggat ctaaatttag 120  
aggaaaaaaa atgatgatgc gatctatctg aaaagggttaa cacgtgccat tcagacatta 180  
ataattatat gggttaattg ttacaaaata taactaggac tcatgttgct tatcaagcac 240  
ataatattta ggataaaatt aatttttaaaa aaaatatttt ataca 285

<210> 26965

<211> 423

<212> DNA

<213> Glycine max

<400> 26965

taaaagtatc actttgttta tcaaatttat ttaatgtgta tgtcaacctt cctgtaaaaa 60

catgctccct cactccaaga atgcttggag ggcgaaggcc atgattcgca tggaactcct 120

ccagaagatt cctcattttc attgctttctt caagataatt gtcctttcaa aattttaaaaa 180

atatatatca gattaaatta cataaatttt ctttcccatc tcattcattc actcacatac 240

atacagttga gggcagagga agagggattt ctctacaaaa ggctgggtgaa ccacatatta 300

atccaaggtc aataagtatg caacagtcca aatgacatgt aaaagtgaat ttcaaggatt 360

tggaagaact gaacaagtac aacaggataa aaatctcact aatgccatga ccgcaacagg 420

att 423

<210> 26966

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26966

ttaagcttgt atgattattg agnaccatc acatgtggta ctatgtggcg gtcgggcat 60

ggtgcacaac aagttttcca catccacaaa gcgcgcataa acccaccatc ccctgttgcc 120

cacctccaac tgagctcag tactcccaag tagcccatat ccttttttct ctcaacaccg 180

ggtcccatc aatcctccca agctttccca acatcaaagc aaaacaacat tcaaacagca 240

caagctatca cagccaagca aaacagagca taggcagaat actctgcca aacaccaacc 300

aaatcacagc ttttctcact tatagacccc agtaacaatt acttcgatcc aattcggtta 360

ccgttggatc gact 374

<210> 26967

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26967

tgtaggatta tggggtagcc atcacatgtt ttactagttg gcgggcttgc ganggagcac 60

aacaagtttt ccacattcac aaatcgcgca taaacccacc atcccctgtt gccacactcc 120

aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca ccgggtctcc 180  
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa catccaaatc atcacaaact 240  
aacaaaccaa gcaaaacagg gcaaaggcag aaaactctgc ccaaaacaca actcaaaatc 300  
acagcttttc acatacaaat accccagtaa catttccttc gttccaattc gttaaccggt 360  
ggatcgactc taaaattcta ctggaagtct ctagtacata cgtctacatt ttgaccggtg 420  
ggat 424

<210> 26968  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 26968

agctttgacg actttgntng agtcgagaat actttattat ttatttggac aagtttgaat 60  
atgatgtaga agaaaatgaa tgtgagcctt tttccccttt gaaagacttg taaaaaaatg 120  
ttttaaaaat actttttaatt aatatttgaa tttttttccc ttattagtat atatgtgagg 180  
ggtagatggt gtcacattca tccaccgaat accagataaa acttcaaaaa ggaaaaaaga 240  
aaattgtaca aatttatggt ctatatagtc agccaattaa aatcatagtc ctttgatatt 300  
aaaaaaaaca tgcaacaaac gttgcacacg tactcgcatc atatttgttg ccaaatgagt 360  
gaatgaacca aactatttct a 381

<210> 26969  
<211> 420  
<212> DNA  
<213> Glycine max  
<400> 26969

tcaggaaactt ctacagaaat ggtcagcact gcatgctata tatgtttttt catccagtgt 60  
aaggccaatt attttttatt tttatagtga aagaagattt tccttaataa ataatgagt 120  
aaatagatga tagagaataa aatattatga aaagaaaaca taaaagatga acagaaagtg 180  
tgaaggcaag ggtttgatat gaacttgtag tctgtttgat agctataatc caaataatga 240  
caaatgagtg tgtaagatgc ccaaatgaaa attcttgctt ttctcttata aaccatagaa 300

tcttgaagtt taaagtgttc tcaatttcaa atcaagattt tgaagtttgt ttttgatgaa 360  
tagacattaa ttttggcatt ggtgatgggt tgtatgagat tattgggtctt ctggatataa 420

<210> 26970  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 26970

tagcttctag agaaagctac atgaagctga ctcggtaaaa atgctgcgca gccttcgtta 60  
accgttggat cttctcgaaa tttggtttgc aactttgcaa gacacatgtc catgatctga 120  
ccgttgggat ctttgagaag atatctggag tgtgctagaa gcctcttaat gaagcttctg 180  
gaggaagcct cttaatgaag cttctagaga aaactacatg aagctgcctc ggtaaaaacg 240  
ctgcccagcc ttcgttaacc attagatctt ctcgaaattt ggtttgcaac ttcaaaagac 300  
acttgtccat gatctgaccg ttgggatctg tgagatgatg tcaggagtat gc 352

<210> 26971  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26971

gggtcggggc agcggtcatt taccaagaaa tatccgttta tggcttcagg ggcacatca 60  
acaatattac cgccaacaat tacctcacct tcaccgatga ggagataccc atcgagggtc 120  
ggggacataa tagggcctta catgtgtcca tcaagtgttt ggaccacatc gtggccaagg 180  
ttcttatcga caacgactcg tcattgaatg tcatgcctaa aagcacgttg gacaaattgc 240  
ctttcaacgc gtcacacttc aggcgcgagct ccatgggtgt gcgggctttc gacggcagcc 300  
gccgggacgt aaggggggag attgatctcc taattcagat tggacctcac atctgttaga 360  
tcactntcca agtgatggat atcaaccoga cctatagct 399

<210> 26972  
<211> 242  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 26972

tagcctggag aggangcncc aatggacgaa aagaaagagg gttcancaag aaagaacgcc 60  
gatcactaaa ttgatggaag aactaaggac tcaactcgaa catttgagtt gtgtctcaca 120  
agacttgcac tcatcaaaat tactacatgt gaaactcatg cctctattta tacactaggt 180  
atcttacttg acaatccttt ttaagacatc atacttgaga agctttctct gtaaacaatcc 240  
tt 242

<210> 26973

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26973

tggagaggat gcttcaatgt cgaanagtat gagggagtta taagagagag gggggagcac 60  
gaaattgaag gaataaaaga gggagagaag tggaactttg aagtatgtct cataagactc 120  
tcattcatca aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180  
cttgagaaga tttcttgaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 240  
aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300  
ccttaagaag attcctaaag aagctagagc ttagctacac atacctttct aatagctaag 360  
ctcacctcct tgagatgaga agctagaact tagctacaca cccnctataa tagct 415

<210> 26974

<211> 314

<212> DNA

<213> Glycine max

<400> 26974

agcttggtgc accattaaca tattttacgt catacaaatt caagataagt taattaaaaa 60  
gatttacgct tttcttttct tctcaagtt ttctcctttg ttgtacagtt gatcgagttc 120  
atcattcatt gtatctatct cttggtgcaa ttttttattt ttttccatgg ttttataagt 180  
aatttcacgt ccacgcatta ccatcgactt caacactaga gcacaattta catgatcatc 240  
tgccgtgtaa taagatgaag ttcaaacatc aaaccaataa attaaacata tgcttaatat 300  
attcaagagt ggag 314



<210> 26975  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26975

cttgaagagg atgctntaat ggaggaaaag aaagagagaa tgtgggagct cgaaattggt 60  
 ggaataaaaag aaggaaagaa gtggaacttt gaagtgtatc tcataagact ttcattcatc 120  
 aaagttacaa caagtgttac acatgcttct atttatagac taggtagctt cctttagaag 180  
 ctttcttaag aaaacttcct tgagaagctt tcttaagaaa acttccttga gaagtttttt 240  
 tgagaaaact tccttgagaa gctagagttt agctacacac acccatctaa aaactaagct 300  
 cacctccttg agaagctaga gcttagctac acacacccat ctaaaaacta agcttacctc 360  
 cttgagaagc tttcttgaga agctagagct tagctacaca cccctataat agctaagctc 420  
 accctcatga caa 433

<210> 26976  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26976

agcttgtctt ggtttggtat tnttaaatca taatagtagc tggtttgata cctcttcac 60  
 atttgaaaag tttggaacag caggtagtgt ggaagaagaa gtagaatatc tatctttcca 120  
 aaatcttgga gggcaattag gcatttggtc tggattttat tcacgatcct gacattgtag 180  
 tgtatcgtgt ttgagctcca attataagtt caacaagttt tgctgtaaca ttcattagaa 240  
 aaacagatca gatgcttaga gttatttatg aagctgaaat gatgatg 287

<210> 26977  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26977

tgcaatgaan attaacataa caatgtattt ataaagtttc gacaaattaa tacaaaaatg 60  
ataaataatt cttaatatataa aattgacatc attttgggtcc aagttaaattg cattttggta 120  
gttattatat gaggcaagggc ttatgttttc atcttcctaa catgtaaaat taacatcatt 180  
ttttaacatt ccttttgata aaattgtata tagtcattgt tgtacaaatt atttgcattt 240  
atgtttcaaaa tttgtactta ggcattggatc gtaagattac aaatctattc tttcatactc 300  
gaaacgttct ttcaatagtg caccttaaac ttaaactgga gtgataataa ttaaaaaattt 360  
cattattatt tgcaaactca gatctatgtc taaaattagg aaggtggtaa cgtttacata 420  
tgtaagga 428

<210> 26978  
<211> 304  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 26978

agctctgctg gtttatatgt tttaacaagc aangagcata tgtatatcat ctgaatccga 60  
attttgcact ttctggtatt tcaatatattt gccctcaatg attaactgga aggtgcagtt 120  
ttgtatgaca aaatggataa ttaggggaata tattttatgaa aatttttttaa caatataatt 180  
ttggtggaca tggagggtcat tttgtgggag actttgtaaa gagtatgatt catcaccata 240  
gcgcattgtt taaagctgtg tatcacaagc tacatacacc caccgacattt attcatttca 300  
agag 304

<210> 26979  
<211> 55  
<212> DNA  
<213> Glycine max  
<400> 26979

caaacagggg agagaggggca caaaagacca cgcagggggcc aacacgagag cacca 55

<210> 26980  
<211> 380  
<212> DNA  
<213> Glycine max  
<400> 26980

agtactctca ttttttatca agtctgcacg attgtgatca agatcaaaaag ctcgccaaaa 60  
 ttcaggccag ttacatagaa gtcgaccaga tcttacaggg gtgttctcca caacaacttg 120  
 ggcgggagca ggaatgcctg cattctgcaa accaactgca ttgctgtcag gatcaactga 180  
 atttgaaaat tcagatcctg gagcttcatt tgagtttgtt gataccgcaa tagctgaatc 240  
 cacaaaagtt gaatgcccat tttgaacttc tctgtagaa gatccattgt tcaaattttc 300  
 actagtgtga acaactgatg attgaatatt tgaagcctgt ccagaacctg ggtccataac 360  
 agttttatga tagctgtctg . 380

<210> 26981  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 26981  
 tgagcaataa ttaaggggga cttgattagc ctcactttta gccatttag aaagccactc 60  
 ctactcccct ctagaaaaga accatgaaac ctaagttgca tccacctggg gcctcctaaa 120  
 gaaattcttt taaaattgac aagaagtcct taaatgagac tcatttggtta ccatcccaac 180  
 ctaaacaat gtaagaatga aaggggtaaa tcttgacacc cttccaagtg aagattgtct 240  
 tcgcaaaaga aagtccccac caaaagggga tgagggatca ttatggacaa cccccctctg 300  
 gattgaatga aaaaacaaaa aatgaaacct cgttatctac aagacaacct cttcaaaacc 360  
 taactacaat gagaattaaa aaataagtac aaccaagtga ggaaatgata gttgacaaaa 420  
 agagatcaga ag 432

<210> 26982  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 26982  
 tctaggcggc gaagagactt cgtccttgtg atatgaccta gaggtggag ccatgacaga 60  
 tcgatccccg tcagccttcc gctgcatgtt catggtgaaa gatgaccact ggatgacctc 120  
 tttgaagctt aaagatgacc cctccatata agcccacaag caagctgcat caactccaac 180  
 ctctatatga cacatctcac atcctttggg acatgcatga tccatattgt cacaacaatt 240

acttatgctc gaccatcctc cacactatca tatatggacc aataagtata catctgtga 299

<210> 26983  
<211> 279  
<212> DNA  
<213> Glycine max

<400> 26983

agcttttatga tgaatcaaga ttgattcaag gagttttgat gataacaaag atgatgacaa 60  
aaagctcaaa agtcaagatc acttcatgat aacaaagatg atgacattca agaagtgatt 120  
caagattgag tcaagaacac ttcaaggatc gagaggaaat ttgatttcaa gaatcaaaaa 180  
tcaagattca agattcaaga ataatcaaga tcaagattca agacttcaag attcaagaat 240  
caagagaaga cttaattcag attagtatta aaaaggttt 279

<210> 26984  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 26984

attacggaca ctatagaaac tcagctgtta cccatgtgag ttcggatoga tccgtacctg 60  
aatcaaataa acattaaaaa tgcagtatct aggaagtgat cctatgtcgt ctaccaacga 120  
gcaatgatca accaaacatt cataacagat agtaggaaaa tagtaacgaa ttggggggggg 180  
gggggtgaaa ctttcttaac aaaactttca tgagaagggt. tattaacata gcttgctga 240  
taatttgcac tgatagttac aaacttgaaa tgatgcagtg gatcgtaaca cacacatcta 300  
taactaatcc acctacttgc aatctatagc ttacctacca cacccatgta tgactatact 360  
tacctacttg ataatatattt tgaaatacta tatctgactt acac 404

<210> 26985  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26985

cactatgata ctaagcttct taacattcac accaagcaac ataacttgtc taattatgga 60

gtttatggac atatgttttg gcaaattgta acacttgtaa acattacgat ggatttggta 120  
aaagaacaaa agggaccaaa ttgaataaaag acattaacat aaggggactga aagagtaatt 180  
tcctccgttt tttttattga tgtaagaatt ggaagtgact aatgggatat aattggttgt 240  
tcagaaataa tcttgtgatg atgtctttct cgtcatttgt tgttcaatta ttactattag 300  
ggttataggg tgaatcctgg cacaacggta aggttcttta cttgtgacct ctttttaggt 360  
tcanatattg gaaataacct atcccacttg tatgggtaat gtttcgtaca tgtaccctct 420  
ccacacccca ttcg 434

<210> 26986  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 26986  
cttctcactt ttattactaa gcgcctatac gagaccatta ctctccgcct ttggcaacat 60  
cagacagcca cagatcgtgg caaccaacac tagatgatat atctaaagtg tacataagtc 120  
ctgatacatg actgcctgat atatgccaat catccgtatt attgaaccga atataatgca 180  
tgcataaata agacatatgc aactatatcc caagcataag agactaagtg ctaattatcg 240  
acagataacg aatgctcata atatgattac gctgaaagca tagccttgta caccgctta 299

<210> 26987  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 26987  
gcatccacct ggcgccctact aaacaaaggg gctatacaca gacaagaaat gctcaaata 60  
gactcaattg ttaccatgca cgcctagaca tacgttcaga gtgaaagggg aacatattga 120  
caccctagca agtgaagaga tgcattgcaa actaaagtgc gcacactagg gcgatgacgg 180  
accattacgg acgaccacgg totggataga gtgataacac aaactatgac tgctctatga 240  
ctacaagaca agccctgcta aacctaacta caatgagaat caaaacatct gtacgaccaa 300  
gcgacgaaat gatagctgac acttagagat c 331

<210> 26988

<211> 385  
 <212> DNA  
 <213> Glycine max

<400> 26988

tcaagctttt ttaataagat ggcctcagca aattccttat ttccagatag gaattctatc 60  
 aatagacctc caatctttaa tggagagggg taccactact ggaaaacccg aatgcaaatt 120  
 tttatcgagg caatagatct aaatatctgg gaagccatag aaatagggcc ttatataccc 180  
 accacagtag aaagagtttc aatagatggg agttcatcaa gtgaaagcat aaccatagaa 240  
 aaacctagag ataaatgggc tgaagaggat agaaaacgag tacaatacaa cttataagcc 300  
 aaaaacataa taacatatgc cctacgaatg gatgaatatt tcacgggttc aaattgtaag 360  
 agtgctaagg aaatgtggga cactc 385

<210> 26989  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 26989

tgccaccag ctcgcccagg cgagcaatgt tgcttccttc agaagcttct tccttctgga 60  
 ggaaggatct ggaaggccca agtgggcccag attgctattg gtacccccct ttttactaaa 120  
 tgcaccccc ttctattttt tggtaatgct atttccgtaa cgctacgaaa ctttacgaat 180  
 ttcgtaatga tacttatgtt ccttctgcaa ggttacgaat ccttacgaat tatgtattta 240  
 ctctttttta gctttcaaag aagatacggg aactcacgga ttgcgcataa acacctcttt 300  
 tcgatttccg ccacgttatg gaatttcacg gatcgcgcaa gcctacttcc ttttgatttc 360  
 tgacacgtct cgggacttca tttattgtgc aacaaaggac accacgtacc tcaaagcagc 420

<210> 26990  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26990

agcnttccat gctgtcgtca ttccaacctt aaccctttt gagctcgtac tcgtgcccta 60  
 acttcacgcg ggctaccatc aaggcagtgc tggacgagcg tggttgact gggggagaca 120

cgacataggc gtggccttcc acttccaaag ctgggaaaga catctctgag gattcttcag 180  
 cggcttgcat gtatggtgta taagaggagac aactcacaag gatgtcttcc tcaccggaga 240  
 ctatgattag ctgcccttct acaataaaact ttaatctttg 280

<210> 26991  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26991

tgtaggatta tgggttacct atcacatgtg gtactatgtg gcggnccgggc gatggtgcac 60  
 aacaagtttt tccacatcca caaatcacgc ataaaccacac catcccctgt tgcccacctc 120  
 caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtccc 180  
 catcaatcct cccaagcttc cccaacatcc aggtaataca acattcaaac agcacaaact 240  
 atcacagcca agataacagt gcaaaggcat aaaactctgc ccaaaacacc aaccaaatac 300  
 acagcttttt ctacttaaa gaccccgagta acatttcctt cgttccaatt cgttaaccgt 360  
 tggatcgact cgaanatnnt actggacgtc tctagtacat aaatatac 408

<210> 26992  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 26992

agcttttttc tctatacacc tacattccta tacacaaaaa aaaacttttt tctctatatt 60  
 cacacgtatt gaaaaactct ttctctctat accgacatgg cctatataaa aatctctatt 120  
 ccttttcaaa gatttctttt tccccttttc aatatacact cattggttca ta 172

<210> 26993  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 26993

tttcaagaga cctactcttt ttgactgttt tcaagagttg gtcttcttgg ttgaacactg 60

aacacaaggg accaatgttc cttgggttca ttgcaagaag caggatttgc ttcttggttg 120  
atcattagac gcaaaagacc aatgtctttt gggttcattg caagaagtgg gtataatttc 180  
ttgggtgtta tcaactggaca caagggacca actttccttg gggttcattg caagaagtgg 240  
gaataacttc ttggttgaaa tcaactgaaca caaaggaggg aagtcctttg tggttcattg 300  
cttgcaaagg attttacaag gttagtggaa atctcaagcg aattgcttga ggactggacg 360  
tatgcacggg ttgtggtcga actagtataa atccggatat gcattctctc tt 412

<210> 26994  
<211> 351  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 26994

tttgcatttt agcttgtttg nggagcttct atggaggctg gatctttgag cttcaatgag 60  
gtccttcaat ggtgattttt caccatggag atgcagcga aggcaaacga gaagaggata 120  
tgggaggcac catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt 180  
gccttgata agaagcttga aaaggatgct ttaatggagg aaaagaaaga tagaaggggg 240  
gagcacgata ttgaaggaat ataagaagga aagaagtga actctgaagt gtatctcata 300  
agactttcat tcatcatagt tacaacaagt gttacacatg cttctattta t 351

<210> 26995  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 26995

tcacacaatt tatctttctc ttacttgatt ttcgaatttc caagtatgaa gtcttttcta 60  
actagatgat tgagatgacg catgtgtatg tgtgtagtcc tatgatgtca caaccaagaa 120  
tcatctatct taattatcag acaactcadc tcatgagatg atgaatgctc aatgtttaac 180  
atattgatat tacctattct cttgccaaata tggacaacct caccggacat agcttcaacta 240  
ataagacaac gattcttact gaattcaatt ttgaagcctt agtcacatag ttgactaatg 300  
ctcacgaagt tatgctttac tccatccaca tagaacattc tctatctgca gtttgacta 360  
atttccaata tttccttctc ccattatctg tac 393



<210> 26996  
 <211> 155  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26996

agctttttct taagctttnt ctgcaacctt ttctcccct ttggcaacat caaaaagcca 60  
 aagaactcgg aaatcaacac agttataaca atggagtagc aagatataag ttcagagta 120  
 ttaaataataa taagccaaac tcataaaca gaaat 155

<210> 26997  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 26997

ctcataaact aagcttatat aagacatacc agcattttat tgaaccagtc catggaccac 60  
 tatattgggt tcagacacag catacacacc ctgttcacc acataaaagg gcccaaagag 120  
 gaaggccaaa gaaaaataga aggagatctg tagatgagga caatgtcaca ggacataagc 180  
 taaagaggaa attggctgag ttacatgtg gaagggtgta ccaaaccaat cataacatta 240  
 gaagctgtaa aaatattgga attcctgtta ggccaaagaa atatgttgca ccatcaactt 300  
 caaatgagga tgacctccta ttatctcaag atgaacaagc tttgaatgag gctaaagaag 360  
 ctgctgctta tgttcaaaaa gattcgggtg agattaattt atctcagcct catttgtcac 420  
 aagatagtga catggagtgt atg 443

<210> 26998  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 26998

agcttgtgct gctattaaac gaaatagatn tatgggtcac atggtgaata atttacacta 60  
 aaagcatctg catcacaaca tttagaattg ggataattac catgtacata caaagcatga 120  
 agagatagct tgagggtgaa actgancatc tagagatcat gaccattana gcaacaaaaa 180

gtagcaggg gtaataggtg ataatgatat agttacaagt aaaaagaatg aaatctcatg 240  
ctcatattta cgtatcaatg ctt 263

<210> 26999  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 26999

ttctaagtgg ttagtcacaa cattaattgt taaatgtttt agatgtttat gtgaacctaa 60  
tgtcaatgcg cattttctca tgttcaaaag atcattttctt aaataaaagc aattctcaaa 120  
atattgttat aatgaaatcc ttagtttatg ttatgcagat gcaacactta gaatgttata 180  
gtttagaatg atgtgttcag aaagctatag ctcaaatgt tgttttcagc tttcatacac 240  
aaacttgttt tcatgtttta tgagatTTTT cacttttga tgcatatgat tgaaccagtt 300  
taagatagat tgttatcaca aagatgactt agttcaaata tgtcatataa caaacattt 360  
aagcatgtta tgaaaatctt ctcaagtatg cattctgatg tagatgaagt atatatgaca 420  
aagagtaat 429

<210> 27000  
<211> 360  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27000

agcttgttta tgttttgact ttacatgcc taactccctt gaggggcatt tgtattgggt 60  
tttatcttgt atgttgcac ttaatacata tgatatttgt attgcatcat tcattatcat 120  
ggttaatgtg aagaaaaagt tcttcaagag acaaaagctc ttaattttta ttgattacaa 180  
gtccattgta atcaattaca acatgttggt tgaagcttga agagttaagt cttgtatcgg 240  
tttaatcgat tacagttgtc tcataattga ttactctgtt ctttgagaca atgacaaatt 300  
tattcangag tctctgcttt aatcaattgc caagtggatt aatcaattac ttctctctca 360

<210> 27001  
<211> 431  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27001

cttagagaat gtttggggtga cacaagggtg acaaattatg ttaaagagat tagtgaatat 60  
tgaacaaggt ttgccatctt attttgaaat ggctttccaa attacttata cctattttgg 120  
aataactatc ctaaaatatg aaaaatatga aatcatatt ttggaataac tattatagaa 180  
taagtaattt agaaacctat ttcagaatat atattctaga atataatttt catattctga 240  
attagttatt ctggaatagg gatacatttc tagaatgggc attctgtgat aaagagaggg 300  
ttaatatatg aatttttaag catttggggg tgtagcgcan aaaatagggt acaggaagca 360  
attgcccatt atgaacataa tgatgatgga tctggggatg gtgcattgat atatcatatt 420  
cacgcaaaga c 431

<210> 27002

<211> 366

<212> DNA

<213> Glycine max

<400> 27002

agcttggttag ttttttaggc tttgagtctt aacttatcca gctcattcaa ttgttgctac 60  
ctgttgctac ctacaagcct aagatcaaag tttagaaact atagagccca catggctttg 120  
tgaacaagtt caacaagcaa atggaaattc ttcccataaa ctagactaaa gggagacatc 180  
acagtgggag tcttaaaggt ttttttgtat gccagagtg tgtcatccaa tttcaatgac 240  
caattctttc tagatgctct cacagttttc tgtaagacct tctttagtta cctattagat 300  
acctcaactt aaccaattgc ttgagggtga taaagagtaa taaccttatg ggtaacacca 360  
tattta 366

<210> 27003

<211> 427

<212> DNA

<213> Glycine max

<400> 27003

atgcagccca atccttcctt taagtaggta cggcgctttc tagtactttc ttgatctccc 60  
tagtctaaac tccaactttt ccatttgttt acggatgata aggtgatgct actttgtgtc 120

aaacatcata gtgttgaaag acctttgaga attgagcaat acaaaagtgt gtaccttcat 180  
 cactaatcaa gagtctaggc aatcaaaacc taacaaaaat gtttctcttt aagatattaa 240  
 tcatcatctt tacatcattg gttggactag aaatttcttc caccactttt aagacatagt 300  
 gcactactac caagatatat ctgttgccac gtgaggatgg taagggacca aaaaaatcaa 360  
 ttccctaaca atcaaacact tctacctcct gcatgttctg taatggcatt tcatgtcgtc 420  
 tagatat 427

<210> 27004  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 27004

ttgcatgtta gcttctgac caaccagca cggtttcgat gcccgaaact gctggatcgg 60  
 agtccgaagc aagaagccga tgcaactgca tgatggagtt aaccgccacg gcttcgttcg 120  
 gattcacctg cagcatccac ggcttcacgt cttcaaggcg ccacgccgcc acgccacgaa 180  
 atgcaaact aacattcacg gaccgcgcca gctcagcgag cctgagccca atttcgcgga 240  
 gcgtgtcgcg gttgtcggac gaggggaagcc caattcccgat gagcctcaac agc 293

<210> 27005  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 27005

tctccttcat ggtttattcc ctagtggatg acgccttctc tcaacttcttc tcctttatct 60  
 tctgctgcat ctccacggcc gaaaatcacc attgaaggac ctcatgaag atcaaatact 120  
 cagcctccat agaagcttct caatcaagat tccatacaaa attaaaagct tatcaattct 180  
 tcaacatcca tggtaactct aaccaacaac actctaaaaa aaattaaaag ataaggatcg 240  
 aatacacttg aaatgtgcaa ttctttgatt tgcaatattt cttcacaagt tgatcaattc 300  
 atgtttgtaa aatgagtgac ttttagatca actttaatct ttagacgtat tatagttcta 360  
 ttcttcttta agactctctt gaaatgtttt tcacaaattc tgaacgaatc 410

<210> 27006  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27006

nctttcttgc ttttatactt tgnacaagaa tgaagctctg ataccacttg ttagacaagc 60  
 ggcctcagat atcttaagaa gggggggttg aattaatata tcccacactg tttcccctaa 120  
 ttacatatct ttttcacttt ttactcaagt tataaattct ccttaatgac aatcttctta 180  
 aatttttaa 188

<210> 27007  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 27007

tcaggttgct cattgactcc atattgctgt agagaacttc agagatctgt accgcgatct 60  
 gcagaagaac atagaccaca gactcttgca acaggtgcag atgcagattt ctgattcatg 120  
 gcaagctgac ttactaggtt gaccaaggca tcaagttttc cctcaagctt tttattttca 180  
 atagatgaag atgaatctgc gaccacctca tggactcttc taaggacaat agcatcattt 240  
 cttgcactga attgttggga gttggaagcc atcttctcaa tcaaattcct atcctcaaca 300  
 ggagtcatat caccaagagc tccaccactg gcagcatcaa tcatactcct ctccatgttg 360  
 ctaagtcctt catataaata ttgcacaagg aggttcttag aaatctag 408

<210> 27008  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27008

tcaagctttt gttatcacct aaaaaccatt ttttaaaggt ccaacgcctt gaaatgggtca 60  
 ttttcgcttt tattggttaa acgtggattt ttaaaaagcc taaaatcaac acatagcttt 120  
 gtcacctctt tcaaaaaaaaa accaagagat cattaatgggt ccaatgcctt aatattttct 180  
 cccctttcaa aagaatcgaa aaatcgttta atgggtccaat gccttanatg acctttttatt 240

caatcaaata tatcttgcaa aaaaagataa

270

<210> 27009  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 27009

tgatttcggg aacttaccgg ttgaagacct aagaactgat taagaacggt caaagaacga 60  
cgaagaacgg ttgaaaatct ttgcgaaatc acccacggaa atgtcacgga agcggttacgg 120  
aagcgctctg gcttggattt tcttcacgga aacaattttt ctactaatt ttaagtgaat 180  
ctcagatacc aggaggggtg aaaatttttg ttcttccttc cttcccctat ttataggaaa 240  
aggaaggaga agcttgccac ccagctcgcc cagatgagct aggttgcttc ctccagaagg 300  
caccacaatg atgcttggtt tgcacaacaa tgctcttttt gacttccaga atgttgcgaa 360  
actttacgga ttgcgcaaca atgcttggtt aacatttcag aatgttacgg aactttatgg 420  
a 421

<210> 27010  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27010

ttaagcttgc ttgcggggct tctatggagg ctggatcttt gagcttcaat gaggtccttt 60  
aatggtgatt ttccaccatg gagatgcagc ggaagacaaa ggagatgagg tgagatgagg 120  
cgccatccac tacggaataa gccatggaag aaggagcttc accactaaga taagccttgg 180  
ataagaagct tgaaaggatg cttcaatgga agaaaagata gagggagaga aagagagagg 240  
ggggagcacg aaattgaagg aataaaagag gtatagaagt ggaactttga agtatgtctc 300  
acaagactct cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta 360  
ngtagcttcc ttgagaagct ttc 383

<210> 27011  
<211> 407  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27011

tattctatgg gatttaccaa gcacacaatt atcacatttt tcaagtttat ctagtttatc 60  
accacctagc atattttggt tctcaagttc atgcaatcct ctttcactaa catgacctaa 120  
tctcaaagtc caaagttttg ttttatcaat caatgtatta ctagttaccg atgcatttcc 180  
aacaatcgtg gaaccttcaa gaataagcaa gccattactt ttattcttgt cacccttggc 240  
aatgattaaa gatccatttg aaatcttaag aacaccattt aaaattctag ttgaatatcc 300  
tagatcatca cacatgttta tgaaaataag atttcttttg agttctggaa tgtaccttac 360  
attnttcagt agatactctc tattatcaaa catcttcaat ctacag 407

<210> 27012

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27012

agctttatta attagatggc ctacagcaat tccttatttc cagaaggga ttttatcaat 60  
agacctcaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaattttt 120  
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
atagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
cctatagata gatggtctga agaggataga anacgagtac aatacaactt aaaagccaaa 300  
aacataataa catctgccct gggaatggat gaatatttca nggtatcaaa tcgtaagagt 360  
gctaangaga tgtgggacac t 381

<210> 27013

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27013

tcagaagtat gttgtggttc ctggagtaat gtacttctc ggntattgtg tnnaaccggn 60  
catggcgatg agtaattgca ttacggtgca tccttttggg tactgttttg ttttctgact 120

tgggactact ggggggtatcg atgatggcag gaaagacact tatgggtgtgt ttgcagacct 180  
 tgttgatcca aaagaggtat gtcaaattat ttttcctttg agttgataat cttgcttttg 240  
 gaagacaccc gagttggaag tttaaattct gcttttgaca tgtagcttcc tgattatcac 300  
 gatgtgatca agcatcccat ggactgtgcc actatgagga agaagttggg aaatgaatct 360  
 tcttatacta ccttagaaca atttgaggta tgcaaacttg tctcagttgg tcacattatt 420  
 gg 422

<210> 27014  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27014

ttgcatgtta gcttaacact tccaaggac aactaggtt atttactctt ttaatagtag 60  
 aatattacgc aaagcttaac aggaccaat tcacaatgcc tagaggata gctaacttac 120  
 caaagaacta ttgggatttc taagcattac tctagtacac acatgcgact aagatctctg 180  
 gatgtagcct ataataggaa acacatcata ggttcaaagc ccaaaatcta ggtgtactac 240  
 aagttctcat attacatgtc atgccacacc gaactcatcc aaaagctagt ttgaacatgt 300  
 tggcctacaa ggattntaaa acaatcttaa gagatata 338

<210> 27015  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27015

tcatggtgaa tccagggtgt ttcaaagtgt gttttgatga taacaatgat gataacaaaa 60  
 gatgatgaca aagggtgatga caaaaagctc aaagggtcaat caaagaacaa ctcaagttaa 120  
 tcaaagatca atcaaagaac aactcagggtg aatcaagaac aattcaagag ttcaagataa 180  
 gaatcaagaa gaattcaaga ctcaagaaga aagtctagaa tcaagaatca agattcaagg 240  
 ttcaagatct caagaatcaa gatcaagatt caagactcaa gattcaagaa tgaagagaag 300  
 actcaatcaa gataagtatt aaaaagttct tcaaaacttt gaatagcaca tgagtttttg 360



acaaaaccct ntaccanaga gtntttactc tctggtaatc gatta

405

<210> 27016  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27016

taccttgaat gataannata ttcttngttc ccttntttgc tgaatgatat tgacaaaaat 60  
ttgaaccttg aacttaaata attttctcca aataccttgt ttagattcca ggagagcatg 120  
tagttcaagg caattttacc ccaaatttgg gggagtggaa ctaattggga tgcaaagaaa 180  
gagataaagc atcatcacac acaacacata agttgtgtgc ttaaaaaaaaa gaaaagtaaa 240  
agagaaaagt gtgctaattgt aaaaaggcca aaagcatgaa agtgaaaagc cagtgaagcaa 300  
gccaatttta ttaaaaagac cattgagata agtttaagat tgggtgctctc ttataatcta 360  
agcttttgaa tcttagaaaa accaatgaat tttgtacca agcctcacta c 411

<210> 27017  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27017

tagctttcat caagtggtaa tcagagcaca agagcttcaa gtaggtgctc cttaaacctc 60  
cattaatttt ttgctttacc ttctcttcca ttgttgtttt cttcattttt tctccatgta 120  
tctcttcaca tgtcttgtgc taaatgtttt taacatgatt ctttagagtt tccaccaatt 180  
aaacttgcta tagaagctag atttgatttt ctatgggtca aatttcttgt tcttattctt 240  
gaaccatgaa ttgtgttgag tttaagttcc tttgagtttt gtcttggtat tttttgtggc 300  
tgaaacctaa atcataaaat tcttacaaaa atattaaagt agaagaaaac ctcanaaatc 360  
tagagtgact tgttca 376

<210> 27018  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27018

tggcatgctc ctaccttttt ctctcagtat caacaaatta tagcaactcc atgaagccta 60  
tttcacagca agaaagatat ttgttcttag ctttttagttt tactagatat ggcatacttc 120  
aaagggctac gtgacaactg taattaagat gaccctaaag ccaaattgat tgtgttttct 180  
gttgaaagtt caaaaagatt actttatcta gcatacttct gcagaactaa ttaattacat 240  
caacttataa ttaattagaa attgctgaag gggtacattt tatgaagtta atatgcagat 300  
gagaataatt aaaacctggg aaggacatgg aatggtcaaa cagaatgagt atgcaacaat 360  
aatagccaaa cattcacatg anaataaggt tgctnttctg cttcacattt ttc 413

<210> 27019  
<211> 519  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27019

ncctttaact agngcatgag antctggcat tnngtgaaaa gtctnngcga tccatagag 60  
ttgacctgac agcacgagag ctatgttcaa ctattccatc atagacatcg catgcgctct 120  
ctaccttcag atagcaatta cccactcga atacttatta gtagatccaa acatatatat 180  
ggtcaccaga tctatgagac aattgacaca catcattcga ccaactcatct taatgacaca 240  
tatgtaataa tcattcttga ctatctcacg caccgatcag ctctatcagc atggctgttt 300  
aatacatacc accttcatct tggttcttgg ttacagcac tgttcatcac attatttaca 360  
tgtgcacgct gcctatcata ctatccacct gccgcatgac ctagcagact ggatcttact 420  
gataccatca aagagatata ctgctacact cctgtgaatt gcgtataaac acgatgcatg 480  
ctaaagcata catcaatcta tgtgtgatgt actacgtgn 519

<210> 27020  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27020

acttagagtc caagaatggt gtttatcttt cccatcatag acatcgggag attctatcta 60  
 catacaactt gaaaattcct tacacaaagt ttcattagta gaactaaata taatattatc 120  
 aacatatatt tgaacaatta acaactcatt ggttactttc ttaataaaca atgtttaatc 180  
 aacttgggtct ctagtgaaag attgctcaag tagaaaactg ctcaatctat caaaccatga 240  
 ccttgggttct tctttcaaac catacttttt cagtctatag acatgggttag gatgctagta 300  
 gtccacanaa cctgggtgat gatctacata aacttcttct tcaatgagac cattaaagaa 360  
 gatacacttc acatccacct gagtaagtct aacatccatg atacatgcac atgcaagcag 420  
 caatcttatg tgatgtagct catg 444

<210> 27021  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<400> 27021

atgactatgg tgagaatgat tgtgaatgcc atgcggctac tgcccttccc tcttcgtgta 60  
 tacaccatct tgtcaacagc gtgatcactg agcctgaact actaccttct tattacacgc 120  
 cgcctacacc tccgatcagc tcttccctgc atactccgca cagtgtgtgt atctcgctac 180  
 cgaagcccca acacctcct 199

<210> 27022  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27022

tgttacagaa cttanganaa atcaagaaca agcttgttct ctcatcggtc gcgtgtacga 60  
 tatccactcg acaaggtttg aagtagagga caccttcaat cctataacgc aacgtggcag 120  
 acaaaaatgg acagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgtact 180  
 tcactatcca tgttcacaca ttattgcagc ttgtgggttac gtgagcatga actactacca 240  
 atatatagat gttgtttaca ccaatgaaca catcttaca gcatactccg cacagtgggtg 300  
 gcctcttggg aatgaagcgg caattcctcc ttctgatgag gcatggacac taatccctga 360  
 cccaactaca attcgtgcga aaggtcggcc aaaatcaaca atgatacaga ataagatgga 420

ttgtgtcgaa ccactctgacc accgatataa atgtaataga tgtgg

465

<210> 27023  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27023

ctgcagattc tanaaatgaa atcttcaagg acgagattca tttgaaggat tcttcaatcg 60  
acatattaag tcaaattgact cctattctcg ataactcact tttctctcaa aaggaacaaa 120  
ctttcagaaa tgataaaatg aggccacatg aatgtctgta tatatTTTTT atttgaaaca 180  
tagtcaatca aatgctTTTT ctttttttTgt ttcgaacttt actcgtcatt ntacgacacc 240  
ttgaccaaac atgcataacg agtaatttct gattgaacag tcttggaagt caaacctcat 300  
gagcgcattg cgcttgagca aacaaaccaa caacttacat tcacattcca ttggaagtca 360  
aataagcaaa gatgtaatta tgataggatg agagacaggg atgtcaaatt tatccatatt 420  
attagcattg taattgtgtg ttacaataat ggcatacact ta 462

<210> 27024  
<211> 208  
<212> DNA  
<213> Glycine max

<400> 27024

atatgaagca aatgaccctt gtagcaataa taaacagatg gcgtatgcta tgctggaatg 60  
gatagggtgg agccaacact actgtaatat aaactgaacg actttatcca tggaaccgtt 120  
tggctcacc actcaggtta taaccttaga acataaggaa cctcgtaatg gcgtaggtac 180  
ttacacgtct acgggaaagc taacgcat 208

<210> 27025  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 27025

tgcgtctttg tgggagtcatt tatcaaaact gaagcctttc ttatttgcac atgtggagca 60

attaaacctt ggcgcaatct tgaacaaatg gagtatgcta tgcagttctt gatgggggtg 120  
 aacgaatcct tctctactat tagagggtcaa attttatcca tggatccctt ttcctcagta 180  
 actaatgttc tttccttagt tcaagaagaa aagcaaaagg aagttgggtgc ttcctcctct 240  
 gctagtgaag tttcacatgc ttttgccttg aagccttctt ctgctgcacg caatcatcct 300  
 accaatcgct tcaaaggatc ttccaagaat cgcccccttg gtgctcattg cggtatgctg 360  
 gatcatactc aggatcggtg cttcaagttg catggctatc ctccaaatta taagaggact 420  
 agttgttcct cacaagtcaa gatacattct tcatcttctg aat 463

<210> 27026  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27026

aaaaccttan gctaagnccg tacgnntcnt gcntncgna cnnntctaga cancanntta 60  
 ananngnccn agnangnagg cattactttc tcgactcacc tcatcgcccg tagctcttca 120  
 ctctatacag catcaccgtg gaatcttgga gcgataagtg tgatgatctg cgcatgaaat 180  
 gtgagagaaa ttgtttgtag atatacgttt agaatgcaat gattccggtg ctgtaatgga 240  
 tacactctgg cctatccgag tagcaactat atactgcatt gattgatcat ggttcgtcaa 300  
 ttataccagc cttatcatgt gcaccccgat ctttctctat aatgcctcaa tggacttata 360  
 gtgccagcta tggatgattt gaatttcaaa agacatctct cttgcataat tatcactacg 420  
 aaagcgcgag accctcacgt agaatattaa ttgatactc cactactggt gcctgcatct 480  
 ctgaactaag gttcgagagc atatacg 507

<210> 27027  
 <211> 199  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27027

gggatcaagg gctttatttg tcatgtcttt gcaaaancga agcaaatggn ngaaatccat 60  
 ggcttgatga aganacgggc tgtatggagg ccctagccta tcctagacca actataatgg 120

angaaggctt attcctcatt ttaatgctaa aatgtgccca ccaaccatta aaaaatgcct 180  
aagaccatgc atggtgtga 199

<210> 27028  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27028

nactttacta cgacacgtag accntctgng acacatagag ccctccgctc tgcatactat 60  
agagtgcacc gcgaagcgat gctatcttcg actgtgcaaa gagcaaaaana gatctcctgc 120  
ttagatgaat gagaaaggct tgtcaattga tgataatgat gagggaggag gaacacatgt 180  
tgtgactact attcttgcac ggggcataat ccttctatca cattatctca aatattaaac 240  
atctgtgaca tatatcacta ctcttactcg ttagcaccac ccgcgcctc atctcatctt 300  
ttgtgactgc tgtaaccata ctcaaacac accgcctgcc agacatccga tctttgacac 360  
gctccaatac tgcctccatg ggcggaccgt tcctctgaaa acacctattg tgtgtacgcc 420  
agttccagtg ttctatctca ctgcgtcata tatctactca ctattcattg gtaccaaga 480  
ccgcatccaa ggttgcctaa cctacatttt tctatgactc acatcgacg 529

<210> 27029  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27029

gcagatttag ttntcgccgg ctaaaggatt gtttttttnt tataagaggc aaatttggat 60  
atcctgcttt gatgaatgac aaagctacgg caaatgaaga gaatgagaag gagggaggaa 120  
cccattgttg gactaccatt cctgcatggc caaatctccc accagctcca caatatcaat 180  
actctgccaa tatcagccct tctcattacc caccacccaa tcaacgacaa aggtcatccc 240  
taaatacagc acatagcccg cctgccgcac atccaatacc aaacacaaac caaaacacca 300  
accaaggaag gaattttcca gcgaataagc ctatagaatt caccccaatt ccggtgtcct 360  
atgctaactt gctcttatat ctactcgata attcaatggg agccatgac 409

<210> 27030  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27030

tgggtgatgt tgcgcgtact gatgggtacc atgatgtgtt tgctgggggtt tgacccacgc 60  
 ggggtgttgaa gagacggcat gggcatctcc ttccttcctt tttgcccctg ttgccccgat 120  
 tcttttggca ttcgcgttgg tggaggaaat gtaatcaaac tttcctcttt tcaatccaac 180  
 ctcgattctt tccccggcaa acaccagatt cgcaaagctg gacggcatgt aaccactag 240  
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
 catgggagga gctacttgtg ccgccaaatc cctcaatcgc tgcgcatatt ctttaaagg 360  
 ctcaccttct ttcttgaaca tattctgcag ttgagtacgg tcangagcca tatcagaatt 420  
 gtactgatac t 431

<210> 27031  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27031

gcgactatgc actacgtgtc tctgtacttg tacgattgac tctctactct gataaagatg 60  
 gctaaacctt atttgccgta atgaacaaga agacatgtaa ccacttgatt ctctacatg 120  
 agatgcattg anaagtctgt agctggcgcc tggagcatct gattgatgac tcatcagagt 180  
 caataaagat gattatacag tactcgatga ggaccttaag aacttatcta ttcgacaagg 240  
 atatgcgtgt ggtcatgtgg ataatgtcga caa 273

<210> 27032  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27032

gtagccctca nattgtagtt ctacttggcg cagataattg ttatgaaaaa gatggcaact 60

atgcaccaca tgtggctaga atagttccaa ttcccagcac tactctttat gatagcaact 120  
 caaacctcat cagagcataa agaaaaagaa gacataaaac caagtgtcgc acccacatgg 180  
 tttgcattga gaagtctgcg gtaggagcca gaggcattgc attgatgttc aatcaatgac 240  
 aatcaggatg aactagatt aagcagcagg catcttaaca tcttatctag attacaagga 300  
 taagtttggc atcatgtcga agatgccgac gacaccacat gtttagttga gttggttgaa 360  
 taaagcgcta aactccttgg ttttgtcttc aattgtgatg gaaa 404

<210> 27033  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27033

gcagtccgca tgcgttcttt tagccactat agaggtctta ccatggctta ngcatgccaa 60  
 atggctttgc tgataattaa ggtcagacga ataccttgat atcaagagac tgaggagcca 120  
 gtgctcacgc cggatgcgga tgactgcgat ttacatcata cttagatgaa gatcgtgaga 180  
 acttgtgctc ctcttttcat cctattctca atgactatta tatgtgatca taaacctgac 240  
 tcaatttgcc ccgcatggcc gcttcacgag agaactctgag ccttcgacac tgtctgatgc 300  
 ctatctatga acaatttoga tctgatagat cagcactata tccgggtccat agacaattgg 360  
 gacgagaaga c 371

<210> 27034  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 27034

gttatatcct ataacttggg gcattcatat atgttctttt aattactaaa tagttcaatt 60  
 caatgtctaa agagccgaaa tttcttaaat gaaaataagg gacagccgaa aacgtacctc 120  
 ttaagaattt gttttgaaag tgctaacgtg ggttggggat agatgcgttt aattacatcc 180  
 agaaataaag attgtgagac catgtgctcc tctttccagc tttctcttta ggactttatt 240  
 atgtgatagc gaactgactc agtttggttt tggtgttttg agtcacagga gaatctgtgc 300



attcgagaat gtctgtggta gatcgataaa gaatccagat caagtaaaaa agaatatatc 360  
 caaacgaagg ctaaagggga cgaaattctg aatgaaatgt gggtagcgat gtctatatatt 420  
 cctaattata gggaggatct tggttctact ta 452

<210> 27035  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27035

gggttttgcc tgagcgtgct ttcggcattc acttgactgt gtacttaagc tactgggtgca 60  
 tgcagcttta gcacatcacc gtacccgcgc ttattagctg agcagaatgg ccgtgggcgt 120  
 tagccagata agacctgacg ctacttatga catccttctt ggacgaagaa tggctacgct 180  
 gagggcaggc taaactatga tccatgcacc tatggatgcg acgtgggacc atacactata 240  
 tctactctcg acgtatggct ccacctgtgg ttgtcttgaa tgttattgag cgcaccgatc 300  
 aactgtcgc aagcatttct ctctacacgc atagcctcta tacatggact ctctgctaga 360  
 tcatactagt actggccaga cacgaatgca aagcatttgc ttcatatgcc actatgacta 420  
 ttatccttgt gtcgaggcgt accaccgaca tcatttcagg agtccaacn 470

<210> 27036  
 <211> 210  
 <212> DNA  
 <213> Glycine max  
 <400> 27036

ctcagccgca gtaatttgct tagcaaatg gctcatccgg tgtagagcaa gatttagaga 60  
 gcctggctca acgaggacga caagctgacc gaacaagaaa tgctggaggc taggctaagc 120  
 gatgatagaa ggctcagaga gtacgacggt gagagcatta gaccgatatt tgactcaacg 180  
 acatcaagag gctaagcaag tgcgtgtatc 210

<210> 27037  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <400> 27037

gcaatcctga ccctctaattg ccacttgata agaaaggggc ctctcctatc ttagagaaaag 60  
catggttgaa ttgagagaca ttctcatca cccaatggga gatagcactc tctgtttatg 120  
aattaggaat gcatggttga tcctgatcac tgaagcgaca gtcctgtgca gactgggtctt 180  
tttgaccaag atgtatctca gcaattcaga gatgtctcca ggtgaacaaa atgcaggctc 240  
accatgacct ctggt 255

<210> 27038  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27038

tcctgattca ccataattct tgacctatgg tgagaatgtc aatccttacc ctggaaggcg 60  
aactgaagag aaaggaaaat ttccaatcta agagaaagca taaagaaaag agaggaaatt 120  
cccaatcaaa gaatgggaga tagtaaaaaa ggaagaagaa aaaggaacga aaggaatttc 180  
ctgatcaaag aagcagaaga aatgtgcaga aagggtctttt tgaccagaca atatctgac 240  
aatacagaat tgtcaccaaa tgaacgaaag gaagggaac catgacctaa agtgggtcttc 300  
tccttttgat taccaaccaa aatcctgtgc gtcggcgact ttttcacccc gactataca 360  
aaaacaanaa aggaaaaagc cagcttaaaa tctaaagcca aagacacac 409

<210> 27039  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 27039

aagactctag cgatgatgct catacctctc taatctctac cctcgccggc tggatatgag 60  
gagcttgagc ttacctgagc gatcttatga cagctacttg tcaccgatca tagactaaca 120  
tagggcttcg aggttacagt aacattaggc gtccttacta caacacacta ctcatgatgg 180  
cctataaaac tatgtttata tcctatacta ggggagtggc caagacacaa cgtctttacc 240  
tataactgac acctatacta acatttactt agatctacgg gtcatgttta ctccatgggc 300  
tcgtgatcta ccctatcgct catg 324

<210> 27040  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27040

taggctaaat tagtctaaac ttttgtaagc tattttatattt atttctattc caacaagagg 60  
 aatctgagga tgaagcttag ttttaagttag tctaaaccaa ggagggctgt ctaaattgag 120  
 cctagtccaa caagagggat ctgaggacaa agcttggatt gattcagtct aactagggat 180  
 cgaggtttag taacttaggc tacaacatag aacacaaaag catgattgat tatagaaata 240  
 tctttatata catcagttgg tctgtagaa agaccaaca tctttaccta ttactgtcaa 300  
 ttttagttac tttccttttt tactattttt agcctagact aagttaaatt ctgttctaaa 360  
 tcatcaatta tcaatgtttc tttcaacaat gccttattta tgaatntaac cctgtctaag 420  
 actagatcca tgagtttgat actcggattc atcca 455

<210> 27041  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 27041

tgatacaagt acacaggact tgattcgacc acgccctact agagtccatc tgggacatcg 60  
 tgcagagaat gattgtcccg atttttagac tgcgagaata acgccctacc tgactatgat 120  
 gactactaca tccttaggcc taggctctac acgcaattag ggaggcgcta cgtgcatatc 180  
 agctgcgaca ctgagtgtc tcaggaccgt gttccatgat gatcctactt tgctcaccat 240  
 tatcatgcgt ccgtatgtgc aattctacac acttgaatcg acggatccta gga 293

<210> 27042  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 27042

tgatgatcca cgtacgttgg atttgtgtcg accatgccct actgattgcc acctgggaaa 60  
 acgtccagtg gaggaacaca ccggcttcta cgctcgagc ccattgaatt actataccat 120

ggtgaagaca ctataaatgc gcctaggctc tacactatct tgagaaggtg cattgcgtct 180  
 tacgttatga acaaatacta caaggatcgt gactccatct gagcctacgt ctctaccaat 240  
 tctcatccat tcgcatgaat acttctctat atctgaaacg acggatccga cgacgagtac 300  
 gccgaacaga ctaataacctg cgacccgcct atcagcttcg cgcatgagac gactcacacg 360  
 gtagatgatg ggaacgagga tgagaga 387

<210> 27043  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 27043

actcgtcctc ctgcttttatt tgggggcagg gtgctcgccc agcaagctca gatcgccgca 60  
 gcgagcctcc ctgcctttcc gttatggggc agacccttgc gtggtacatt ctctttactt 120  
 gttttgactt gccgattgta acctacctct gctataatgt gcgcctaggc tacttatttg 180  
 attaccggcg 190

<210> 27044  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27044

tgccacccag ctgcccagg cgagcaaggt tacttccttc ataagctaca gccttctgga 60  
 gggcccaagt gggcatggtt gctatttgca ccccatnt tactaaatac accccctgcc 120  
 ttttttttgt gattcttttt tcgtaaagtt acggaaactt atgaatttcg taacgatact 180  
 ctgtttcttt ccgtaatgtt acggaacctt gcggattaca taatcatccc tttttttgac 240  
 ttacggaatg ttacggaacc tctactatttg tgcaacgatg cttccttttg atttccgggtg 300  
 tgtcacggaa ctttacggat tgtgcatcaa tattttcttt tgatttcggg cacgtcacgg 360  
 aatttcacat attgcctaata gatgggtgcc aagcacctca naatgaccaa acaaaagtgt 420  
 cattccacca agcataggctc ctcggacaaa attatgggtat gaca 464

<210> 27045

<211> 114  
 <212> DNA  
 <213> Glycine max

<400> 27045

tagcatgctt agctgcggta tcgtcctttg attggctcat atatgattac atattcacat 60  
 tacttgattc tagagagggg agatttggtg gttaccttcg cgtcggtatg atac 114

<210> 27046  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27046

tagtctgtga tgggaaaatc aatgggtcaat attccatctc attcataagn tgttatgcat 60  
 taacatataa tatcgattca tcgttatgga ttatatatga ttacttattt cacatatact 120  
 taattataga gagggagaga ttaaattggat acctttgagt ggtatgagac ctttatcaaa 180  
 aagagaacgg tagtgcaaaa tagacattaa ggcacaagca ctgaccggtg aaaatagagc 240  
 aataggaagt gaaagttctt cagcagcttg tatagtaaaa agcatggaac aatcagacac 300  
 caagcaagta actggaggta caaagccagc agtggaagaa tcctgaagac gagcaagaag 360  
 atcgcgaaag ggtacgagca tcttctctct cactgantta gcaagagaca ctgcgtcttc 420  
 agtgacatca ccatcaccat atgtgggggg aagactatct ggtatgg 467

<210> 27047  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 27047

gccgcatgca cgctttgttc agaggatcat gtcctcctag gcacttgtga cgcttatgag 60  
 tgaccatcca tggagaaggc agcctactta gagatggact cacctaggcg atgaccttgg 120  
 ctgtaccgat ctgttacaca tgctacactc tccgatggag ggccctctgt actacaagcc 180  
 ttggaaaatg catgacttac ctgcggagga ccttcgatct gtcagcttct tggttatgtg 240  
 gaacttcctc acgctaacct tgtgttcgag gcccttttgt aaaagccttt ctgactggcg 300  
 accatcctca gtgatgaaca tcctacgcgc gactctatgc tgaccacagc tagaccgtgg 360

a

361

<210> 27048  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27048

tttaagatgt gctcatttgt gtaaacaaca tctacatatt gtatgtagtt catgttcacg 60  
 taaccacaag taacaataat gtgtgaacat ggatagtga gtcgagaata ctttccgtat 120  
 tgacaatagt ggccattcaa gttaactgcc cacttttgtc caccatgttg cgttatagga 180  
 ttgaaggtct cctctacttc aaaccttgtc gagtggatat catagatgca gacaatgtgc 240  
 gaacaagctt gttcttaatt tttttgaagt tcttaacctt acaacaatat acttgtccta 300  
 catttaattg tctttgggct tggcgaccat gatcaataaa gtactttcga caccgactat 360  
 atgttgattt caccaaagtc gttatgggta tgttgcgata atccttcaat accttattta 420  
 cacattntga gaggttggtt gtcatgtgat catatcta 458

<210> 27049  
 <211> 526  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27049

cgaggggatt gatgctatcg atagatcctc ctgngacgat atacgagctc tcgacctcga 60  
 tgatactcgt gctatcgaca cagcaggcac gtcttgcttg gatntcatat ancaaaagcg 120  
 aatctagtga tggactactt atgtgagcca aacatcaata ccggctcatt ctaatactac 180  
 tacctactgt ccatatagac gtacctcaaa ccgcattcct tagaatctta acactttgca 240  
 gcagctaatt gacaaactct agacactcta gtgctctggt ataaaggat aatagatgaa 300  
 cttcgtagcg gaatgaaacc tataggggtt ctggcataga acacatcaac atgcctattc 360  
 tagtattgct acgtggtgct ctccacacat gttgctgagg ctggaaaccc ctgagagggg 420  
 ctcacatccc gcgacatcta acgtctatcc gaacacctac tcatggacac gtcatatctc 480  
 agactggata ctaggtcgat tacacctagc attgactcac tttacg 526

<210> 27050  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27050

tgatgaagnt gtgctatggt agaaagggtac attatcttaa atttcataaa caaaatctat 60  
 caagtatgga ttctttctta gtaaacaatca gaatggctat tctaataata ctacataatg 120  
 ctcataagaa aggttcctca gactggaaac cttagaattc aaatagcttg gagttgtgaa 180  
 gtgtaaagtt tgatgaagct gtgctatggt agaaagggtat attagtttaa acttcatcaa 240  
 caaaatctat caagtatgga ttctttctta gcaaacaatca gaatgactat tctaataata 300  
 ctacataatg ctcaccagaa aggttcctca aactggaaac ctcagaatgg ttctgaaagt 360  
 tgtcaactca tgacatctat caagtccacc tactttgtga cacctcanat ttcaaactga 420  
 aaatattgta tganaaact cttaatttaa 450

<210> 27051  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27051

attatgcatg taggnaccct gagagcctag actctgagct gtgatactta gagggaccag 60  
 ccgcacgcat gcttgtctgt tatgcggacg aagacgatcg ataccagtcc acaggctata 120  
 tcatgactcg acgagtgcaa tagatagaga gagtatcacg atgaccttga gatgtatcat 180  
 gctaataaca tgcactctgg ctgcaacgct agaaccgccg cgtagtcata ctgcacctcc 240  
 acacgattag gtactgcatc gccgaatcgc cagaaacacc aggaggccga aagagacctt 300  
 cccgcaggat atgctggcct gcacatatga ctgcatctca ccttataggg atcagtctgc 360  
 agcactacat caggcgatgg agtccgtcct ctagcagcag tcctactaga ccgtacgctg 420  
 accagcagtc cttccgctac gactgctcca aatacggcca gccgtcacgg gccgactccg 480

<210> 27052  
 <211> 361

<212> DNA  
<213> Glycine max

<400> 27052

tgtacttgtg aggcagggcg gccttcctac agctttgttg tattttatgc aaacttcgac 60  
catcgaacat ccttctcaca aggttcctta tctgtctgc ctgaatgggc ttatagcttc 120  
aaaccataac ttaacaccga ttacacttga cgatatatga tcgctagata tgctcccggtg 180  
gcattttcct aaaaccatgc cgagatctaa accgcacccc cacatgactc gggccatcat 240  
taccgctgca tcagacacac tgcgcggcgg atagagggag atcacgcacg aaatgttgac 300  
cacactagca tgactgataa gctgtctata acgatttctc tgctgttcct acataatgca 360  
t 361

<210> 27053  
<211> 122  
<212> DNA  
<213> Glycine max

<400> 27053

cgacacatat gacggtacag atccatgtgt ggatgaatac tgctcaaata ttctaccgat 60  
attgagatgt aaaaacgaga ttgcaactat agatgctttt ctcaatatta atacatccgc 120  
tc 122

<210> 27054  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27054

tgcacaaggt tataccctcc ctctcactact ntgtttgtat ctaacacatt ctcttcaaga 60  
catagtacta acttcctac attttcacaa cttgtagtgc gacaaagatg acggaagaga 120  
accatgggtg gatgaatctt catcaaattt catttcatta ttgagatgta aaaaagagat 180  
ggcaactaag gatgctaatt aatttatattt tacattgtct ctctatttgc gtatttgtaa 240  
tatacttata tcttacagtt tataaagaat gcaatgactt ttgaactttt ggttgacatt 300  
tattcctact gagtgtgcaa ctagcaaacc aaaactgttt gaaaatatc taactgctta 360



tgttgatatg tccaaggctc acacgctgtg cttcttagct gatactatat tgtgtgaagc 420  
atcaatcatc attacgacat agaagactgc actcactatt 460

<210> 27055  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 27055

atatgatgac cacactatag gcaccttgag atctgtcacg agggtcacga taccttgggg 60  
acggcacgtg tgatgctgat ctctaact tacctcgtgc attaccaaac ccaccatccc 120  
atactttact catgagctcc tgcgatgcac ctcaacgccc tagctgcttg gactgaacat 180  
atgcccgggtt ctcagaccac ggcacgacga agatggaccc ggcttgacga atatgaactt 240  
taagaggact atgacgtg 258

<210> 27056  
<211> 458  
<212> DNA  
<213> Glycine max

<400> 27056

tatccatcca gacacagatg caccatcgcc acctctatat catcaccatc tctagagtcc 60  
atctctgctc acatgcagag tatggaactc tatatgcagc atgtggccga ccagcaagtg 120  
gccaatcgta agggtcaggc acaattgaat gagagctttt acaattacac cctgcatcag 180  
tagaccagg atcccaatcc ttactcatgg cctactccca agcagttcga ggccataatt 240  
gcatggcctg gagataggcc caattttcag gcaagggcag gacccacagg gacccccgtt 300  
gatgaagatg aagctcacga agacgatgac atggtcgatg tgatggcctt cttcctttga 360  
ggaggatgag ccgcttgact atgatcgctg aaaactatga actcatctgt attttagttt 420  
tatcgctctc agtatctgtg tgtatctcat tgtgatgg 458

<210> 27057  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 27057

tatttgtaag gctacgcatg agcaaaggac tcatacaact ctgacattat agtgtgcgac 60  
 ttatagcaac cagactttac acgagagacc ttctacctat gcttggaatc atagacatgc 120  
 gctatataag ccttggaatg atgggagatt acgaatatga ttccgtagtc acatttgcat 180  
 gaaacctggt cggagtcttc ctgcgacat gacctgctac atcgtctttc cct 233

<210> 27058  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 27058

tatcttgatt gaatgtagca gcaaacttga cgatatttct aatttttcat ttctgcaaag 60  
 gactcatcca gctttgacat tatagtgttt gtcttattgc cattaaatct tacaggaatg 120  
 tccttttcca taatcaaggt tttagagtta tacactctat atgccttgga taattgagag 180  
 tatccaagta agattccata atcacatttg gagtcaaact cttcaaagtt atccttggtg 240  
 ttcaaaatga aacgttgaca tccaaatggg tggaaataag aaatattagg cttacgttcc 300  
 tttcacaatt aatagggagt cttctttaag attgacctaa tatagactct gttatgtaaa 360  
 aaacaaacag tgtgatcgag gccgtaccg aatcatataa acatgataat gcagtaacta 420  
 ggaagtgatc ctatgtcgtt tcccaacgag cagtgc 457

<210> 27059  
 <211> 145  
 <212> DNA  
 <213> Glycine max

<400> 27059

ttctaaacta ttattccttc atataccatt catttatcaa ttatggttct atccagaata 60  
 aacatgaagc tgtaatggac taaagatata tttgggcctt gttagaaaat attcacatat 120  
 tgatgttcat aagataaatt tatga 145

<210> 27060  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 27060

tatcaaataa ggttagtcca agtaatttct aacaattttt agccactaga aaaaaatcac 60  
 tacagaatat ttgtaaataa ttaaaaaaac atattgtcac atcacgattt aataaagaca 120  
 tttaatgcca aggactaaaa accaaacaaa aaaaattgag caacaaagac cagtcaaata 180  
 ttaattaagg tactaaaaag aaaaaacatg aaaagttaag ggactaaaaa tatattttgc 240  
 ccttggttaag aaatattcac atatttagtt tcatagataa aaattaattc taaatctaaa 300  
 attattttga gataaaactt agtataacat atgttatcca acgtaaaagc tatttaatga 360  
 ttatacagta acaatgtaca ataggttttg tcgacataac ccaagcacac 410

<210> 27061  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27061

ntgatctatg atggatgctt ctacggcgaa tcagctcgag ctgggatact gtcagtcgac 60  
 ctgaagcgtg catgcttttg caatangaaa gctgggacca tcatcctact atgacgactg 120  
 anaaaactgt agctaataca ggtgttgaag accatagaaa aaccttatgc tagtgactag 180  
 acaattgogt ggccatgtac agagctatca ctatcgcac gaccaataag tgcgaatata 240  
 ctccatgaaa tatcttacgg tgctgattac cgagcatgcc attatcttgg actgggataa 300  
 ctatatgaga cacacttgac gtctatcgca cgtacgatga cgaacacca ttttaatgga 360  
 tgcctattgg cgaaccagat gtgaatcttg ctctagattc ctgtcaatat actgagatac 420  
 tatctatgat aatgctgcag actagggata ctactgtat tgtactctag acagacatca 480  
 tgtggatc 488

<210> 27062  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27062

ntgcagaatt ggccttcgcc agtgaaagga tcaatgttgg tccgaaaaga gcaaatttga 60  
 tcatcctact aggacgactg agaaaactgg ggcaaataaa gagggtgagg atgaaggaga 120

aacccatgct gtgattgcca ttcctgtacg gccaaagtttc ccaccaaacc caacaatgtc 180  
attactcagt caataacaaa cctcctcctt acccaccacc cagttatcca caaaggccat 240  
ccctaaatca accacaaagc ctgtctatcg cacttccaat gacgaacacc accttttagca 300  
caaaccataa acaccaacca agaagtgaat tttgcagcga gaaagcctgt agaattcacc 360  
ccaattccag tatcctatgc tgacttgctc ccatatctac ttgataattc aatggtagcc 420  
ataaccctag ccaaggttca tcaacctcca cttttctgag g 461

<210> 27063  
<211> 131  
<212> DNA  
<213> Glycine max

<400> 27063

actctatgag caacctgcfg catgctagct tacattgtcg aatttgagc gtggcgcat 60  
ctgatgcgcc tgaatgtgac tctcttgta ctaggatgta ccattcgagc acatactaga 120  
gctgacacgt g 131

<210> 27064  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27064

ttcactcgga tgtccgattc angcgcataa tatatcttat atgttttata attgaacaat 60  
ggaagctctt gagcaattca aatggtcata acttttctact aagatgtccg attcaggcac 120  
ataatataatc gagacgttcg aaattaaaca atggaagctc ttgagcaatt ccaatgatca 180  
taacttttct ctaggatgtc cgattcaggc gcataatata tcgagacggt cgaaattgaa 240  
caatgaaaga tcttgagcaa ttcaaaggt cataactttt cactcggatg tccgattcag 300  
gcgcataata tatcgagacg ttcgaaattc aacaatggaa gctgtcgaga aattcaaag 360  
atcataactt ttcactagga tgtccgattc aggcacataa tatatctaga cgttcgaaat 420  
tgaacaacgg aagctcttga gcaattcaca tgatcataac ttttctcttg 470

<210> 27065  
<211> 282

<212> DNA  
<213> Glycine max

<400> 27065

caccacgaac atgcgcacgt cctcctggag tacatccacc gatgggaact tgtacacggg 60  
agcggatatat attaatctta ttttgctgct tcaatctaga gcgggatcct gactgaccgt 120  
accggacata tattcggcaa ctatgacaac atgctagtgc cttggcctat taccgttgta 180  
tgcgtatctt tacttacatc ggaaccacca ttgtatgttg ctacgggaac tattgccttc 240  
cctagagcag aaggatacgg gacatggatg actatatgag gt 282

<210> 27066  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 27066

tactcacgct tctagattgg tgtaccacgc cactactgct ctggttgtct ttaagaagtg 60  
cattaacagc ttttcgttcg tagaatatgc ccccatcctt cggcagtaca tccaaagatg 120  
acttttttga cacgtcgtcc ctttatatct atcaaaatct gatactttaa acttgggagg 180  
gataatgatg tcaggtacca gacatagatc cgccaaatcc gagaacggat aattgccaag 240  
gccttctacc gctctcagcc tctcttcaag tagatcaatc tttcccttgt cttttgcaaa 300  
gggaacgagt tccttatcag gtgcggaagg agacgggacg tggcgggacta tgtttggttg 360  
gggcaactca ttacgggctg gttccttgag gggaagtaga ggacctaaat gggcatctcc 420  
ttcatcatct tcttgc 436

<210> 27067  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27067

acctgtgcag caaagtcaaa ctgcttctac agaaactaaa agccttggag aattctatgc 60  
cagctcaacc ttctgaacaa caagtcaagg agctcaagaa aacccaagct gacctttggg 120  
aaaaagctac tatgcatgag tctatttgta ggcaaaaatc aagatgcaga tggatcaaag 180

agggggacag caacacagcc tattttcata gagttattaa tttgaggagg aggagaaatg 240  
 ctttgagggg gatgcagata ggtgacacct gngtggaaaa tcctaacatt atcaaggctg 300  
 aaaacctgca ccattttcac aacacggtca atgacactca ctcgagctga cctaacctgg 360  
 atgggggttg atttaaaact ctgact 386

<210> 27068  
 <211> 177  
 <212> DNA  
 <213> Glycine max

<400> 27068  
 cctatctgat gtctgttgta agaaatgcat gatcgtatgc acagactaac gcctgcatgt 60  
 gtgaccttcg acaggcttct tggacaagcc cgttgacctg cggagaccta catcatctac 120  
 catactgacg cgatctgtac tgctgacgct atagctgtcc taaccggcgg ccctact 177

<210> 27069  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<400> 27069  
 cgatagcacg caaagactaa cgttctcttc tgcgcctatc gttaatctcg gacgacaagc 60  
 accgcgacac gcggagatat acatcatctt ccgcgctcac aagatctgtc atactgacat 120  
 ttgagtctcg ctgacgggcg gaaatacccg agtggttatc cgtataaaca ttcttttttg 180  
 ctgtctgtaa gaagaaaagc atgattgcat gcagagacta acgtcgtctt ctgcgacctt 240  
 cgtcaatcgt ggcggaacaag cccggttgaca tgcggaaatt aacgtaatct tccatgctca 300  
 caagatctgt catacagaca tttgagtcac cctatcaggc ggaaataccc gaggggctat 360  
 ccgtataaac tttatttcgc tgtttataga cgaaaagcct gatatgacgc ataaacacac 420  
 ctcgtgctct gcacgcatcg ttgatcagag actacaagct tggaga 466

<210> 27070  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27070

nccggattgt gcatcgctgt acggcaatca gcctgacctg cgatctctca gcgatctgcc 60  
 ggatgctgct ttctacaact ctcgacagtg cgggctgct taccgacctc ctccaactta 120  
 gagagactag catattgcta cgaagagagt gatgctatgc aaggtatggt agagacctag 180  
 tgtgcgctcaa tacttgatta tagactacta ttcattctat gaccgctgc atagacctga 240  
 atatgaatgg gcatcttaag atcagaggaa tcttcccatc ttcgattctc gccaaagatca 300  
 ccatattcaa cggaaacgtc attggaagga ctctgacaat gactaatatg tactcgctg 360  
 taagactcgt gatattcaga ccgccagtgt agcgtctcgt cgtaaggctt attatatatt 420  
 agcgttgtag tatgattgac atgagcctta tgtgatcttt gtctctaaag caacgagagt 480  
 catacg 486

<210> 27071  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 27071  
 tacaacgcta ccataatcgt cgacgatttg gcctgtataa tcattgacta ctaccacgac 60  
 agtactggtg tgcttcacga cggcaacgaa cttagagaga caagcttaac ggtacaaaat 120  
 gagtgaggta atgcgggcta gggcacaatg cgagtatgca agagaaaaag atgcgaatct 180  
 acttcacatt caaagacggc gtgcataaaa cccgtctttg gataatgtag tccaacaacg 240  
 gcgcatggca cccgtctatg taacgcgcag ataacgccat tcttaagatg gacgttattg 300  
 aaataagagt cttaatgagt aaaacgccac cgtctatcga gctcatcata ttcggaacca 360  
 ccgatgttgg caacgcgtct gacaatacta ttattttaga agtgtacgga ccat 414

<210> 27072  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27072

gactaagtgc tcaccaacac tagataagat tccttcatgt tgtttcatgt aaacctcttc 60  
 ttctagatca ccattcagga acgccgtttt cacatccatt tgatgcagct caagatcaaa 120

atgagctact aatgccaaaa ttactcgaag agagtctttc ttagatacag gggaaaaggt 180  
ctctctgtaa tcgattcctt ctctttgagt gaatccttta gcaacaagtc ttgccttatg 240  
tctctcaatg ttgccttctg agtctttctt tgttttgaag acccatctac atccgatggc 300  
ttttacacca acaggcaact caactagatc ccaaacttgg ttagatgcca tagaatccat 360  
ctcatccctc atagcatnta taccacaaat tgattcctta gaactcatgg cttatgaaaa 420  
cgtctcagta tcantttccg ctccaatggt gtagtctgat g 461

<210> 27073  
<211> 161  
<212> DNA  
<213> Glycine max

<400> 27073  
atcccacatc tccttgatga aggatgcttt tggaggcctg atatttatct taggtactgc 60  
tagcatggat ctcttatgac gcatgatcat atttggctca tatgcttaca ctcaccatat 120  
acctattgat cttatgaact ccatacatgt tactattact a 161

<210> 27074  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27074

tgagaattgg attgacctgt gctaagttgc caaatattta cagagttagg cacagtatta 60  
ttacaatcaa cagaagaaac agtattttata caagctggag aagacacagc agagcagaac 120  
tgaagattgg gaaactggta caagccatca gatccaacat ctcttgaag aaggattctt 180  
ttggaatcct gatatttaac aaagcaacga ttagcatgaa actcaaagaa aacatgatta 240  
tctttggcaa atttgcttac actaattaga ttcttagtga tttgaggaac aagaagcatg 300  
tttttaagaa taagttggcc attaggactg aaaggagaaa caaaattgga attaccaggg 360  
gctgagatat tcagaccttg tccgttacca atnttgatct gatctggacc ctcaaattgga 420  
caag 424

<210> 27075  
<211> 518



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27075

cgcggtttgt gcgtcgtgct cntcggacat atcagcctga gctgggatcc tctataggcg 60  
cctgcaggca tgctttctta gcgcttcgat gatggagcgt actgagatct gtggagcana 120  
anagctgcga ctctccgcac gcatatggct agttaagggt gagcataaca ggggtgcatat 180  
ggcgcattat gtcatatcag aaacgaatat gaggccgcca cgattgttca ccgttactct 240  
cgcatgatga ggcgctacac gcgctcgaac tccagtgtct ggccgaaata gactcagtgc 300  
tcntgagacg cgtgactcgt acttaggaca cagactaatg gatggtttat gggttgtgca 360  
tgtcgcttac tcgaatgcag atcgaattga ttccggatta acgctacagt ggctagctta 420  
cctgtacact acagcctgag acgcaagggt cgtgcgctaa gcgcttaaga gtcgtggctc 480  
ancgctggag cgcaatatgc gcttagcatg acgatcgt 518

<210> 27076  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 27076  
gtctagctct tcattgggtgt attgagagct ccttttggtg ctctaaattg agggagtgtg 60  
ctcaaatata tggagcaatt ttgattcgct tctcgcctcg attagggcga attaagggtt 120  
ggcatgagat ggccctatgc ctataatgca ttttgaaaca ataggacatg ccacattgtc 180  
cccgttctct cgctattgat gcctaaacgc gcgcccacca agtggttcggc gaaatgcctc 240  
attgtcatta gcgtgtgact ttagtaagga gacagaccca tgggtgtatta tggtttgtgc 300  
atattttcta ctttcatgga atatgtattc attcccga aaaggctagag tagttgcctc 360  
acatatatac tagtcctaga aactgaaagt tatgcacaaa acactaaaaa ataatacgcc 420  
actctgagggc gcata 435

<210> 27077  
<211> 549  
<212> DNA  
<213> Glycine max



<400> 27079

ggttgtggtt tgtgcctctt gtccttaggc gaatcagcct gagctgtcga tctattgagt 60

ctacctgcaa gcatgcatag cttgatacac tcctatctga tcanagatga tccatagagc 120

catatacgga ccaacatgac atgcaagcct cttgacaggc tatcaatact tagcggttcag 180

ctctagacct atacgagaca tggtcaagga tgcgatccat gataacaact actgattacc 240

tggactttgc tttcgactg atggatcctc cggcctttac tctgtgtgct tctcagcccg 300

gcgtgtgcat ctgctccttt gatgactctc tatgcgaaga agacacgaga gcagaccaga 360

tcgctcgcta cacctaggat caccatgctg agtctctcgc ttatggcatg aggcactcac 420

tcgatcaaca acgcggtgac gttacgtang agtcttgatt agcccaagcg agctggttga 480

tggactgaga gaatggcn 498

<210> 27080

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27080

ntacgaacaa aatgaaatca ccaataatga gtagaaatga ttcatacata tataaaatat 60

caaaagagat acataagggc acaaagatta catccaatcc ttttgagaag ctatccaatc 120

attgcataga gcacaagatc aacaagagaa atgatgaagg atgcgatcca tgatcacaaac 180

tttgacgcgc ccgggcttca ctttttttatt ctttcttcct tctgtgttct tcctctggct 240

tttctctagt cttgggtatgt ttctctccat cttttgcatg gctttttata gaaaaagagc 300

caagaggtgc agaccaattt gctcgatcga gctaaacaca ccaggtgag tttcttgctt 360

agtgtgaag gcactcactc gctcaagcga gttggttata tatgcctgaa gaaacttgat 420

tagcccaggc gagctgattg ctagcctggg tgaatggatg . 460

<210> 27081

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27081

gctcatgcaa gcttcgcgac ggccggcacc atttaggagt gtccctacat tcctgttcgc 60  
 tgctccatga gcatgttact ctattgttat atggctctct atgcatgacc gatatatctc 120  
 gatggcgtga ctcacacca tctatcacga ccttcttct atagcctgtt catagaatga 180  
 gatcccatct actgtgtata gatttataga gtgggactcc actacttatn gatgcacact 240  
 aaaatattta catcagcaca tattcctagg ttcttatttc ttagagcgcc ttgtntacag 300  
 atttgcctta ttaagagata tacttc 326

<210> 27082  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 27082  
 gcattataga atatatgcgg caatcgtgaa agacacatag gactagacga ctctaattgct 60  
 gcatattcca tgggaatctt ataacgcacg tgtactactg atctgctgcg agaaactgta 120  
 actacattct attacctaca ctatcactat gctcatcagg ctcaagaccg ctctaactga 180  
 gactgagacg cacacatgat atggatttct tgctgactcg caagatgtga cacacgagca 240  
 tcactatgac tacgtatgcc actattccta c 271

<210> 27083  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27083

tccaagtgag aaatatacag aggagagtgg ttacctaaag gcactttgat gagagcaa 60  
 aaggaataga tttggctatc gcgaaagacc gaaaggatta tatgaaactt atgctgtatt 120  
 ttcttagggc atcttagaag gcacatgtcc tacatttttc gagtgttttt atatcaacta 180  
 gtccgatctt caatagtatc ctatgcttat cagcctcatg atcgttctat ctgatactgt 240  
 gaccaacagt tgcttatgat tcgatgctga cacacaacaa ggcgacatga gtcttctcca 300  
 tgtaaacata gtctcctata aatttaagtg ccatcaagca tatagcatat ttacattttt 360  
 tacaatgctg catataatac ttattctata gtaactactg atcaatgtat atgttataga 420  
 actctntcga aagcatacac ctcacatgtg 450

<210> 27084  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27084

tggcccttct cctttatgtt tanaaagata gcttttcatg ttaactatga aaagggttatt 60  
 gaaaaagggtt ggagccatta atttgttggt tgcctatgt ttgtcttaat atgcaagctt 120  
 aaagtcataa ttatgaatct aaataaatct ttctttggtg atattcatga taaagttaat 180  
 tcttgttata aacctattga agttatccaa tatgaaatta gtcattgtgt attttgtgat 240  
 gcttgaagg acaatgaggc taaagcccaa ttagatcttg atcaagctct ctcttgcattg 300  
 agactttttg gaaggaaaag gctntgtgaa atggaattgc cattgtaata catcctattt 360  
 tcacatgact cangtacatc aaacatcaaa acggtttcta tacttcgtaa tggagactcc 420  
 ctgttaacct ctcaactaga attgaaaata gaggttcta 459

<210> 27085  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27085

cgggaatgat gcgtcgctat tacgcgcgat atcagctctg acctcgcgat actatagagc 60  
 cgacctgcta gcgtgcacgc ttggacttat accgctccag acatgacagt cgccgatata 120  
 agaccgctct acgcctacaa cactgacttg ccatctgagt atggtcgctt cgacagtatc 180  
 gacgcgtccg acttatgtac tactaatgca cagagttgac ccatgaaatt ggggaccgat 240  
 gcttgacatc gctggataca cgcatacata acctcggtcc aggactatga cttcacttgt 300  
 atgccccatc tccggcagca gactaaggcg tgcgcgacac ttaatanata cgaggcgtgt 360  
 cattggattc cgtgtgatgc ctgatctatg agcgcctcc taggaaatgc ataggggcca 420  
 gaggaaggng cacatccaga acttctacat gtgagggacc gccctgacta gctcgatggg 480  
 gagagctatc tccatctgtt atgta 505

<210> 27086  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27086

tgcctcanag aggtccaaga aggataaggc ggccgaatgt actagttccg ctcttgagta 60  
 tgacagtcac cgcttttagga ggcgtgtaca ccagtagcgc ttcgaggcca tcaagggatg 120  
 gtcgtttcga cgggagcgc ggcgtccaact cagggacgc gagtatactg atttccagga 180  
 ggagataggg caccggcggg ggacatcact ggttaccccc atggccaagt tcgatccaga 240  
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300  
 gtcctgngta aggggtcagt ggatcccgtt tgatgccgac gctatcggcc agctcctagg 360  
 atatccgttg gtgttgaag aaggccaaga gtgtgagtat ggccagagga ggaaccggtc 420  
 tgatgggttc gatgaggagg ccatcgccca gctgctatgt ataca 465

<210> 27087  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 27087

gtgatacgat ctcagaatgt gggatatagga cccaagttac cttactctcc aacacaccca 60  
 cgcgagccca tgacgacagg cctgaacggg cctacagcac gagaaagcag gggggacaac 120  
 aaaggatcta gaacagacgc gaataccgaa agacgagggtg aggataagac caagcccaac 180  
 cacacaaaac gggctagggc ggtgaggact aactgcaca agccttataa gcgatactca 240  
 cgacataccg ccgccaacag gcgaccc 267

<210> 27088  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 27088

ggggccatga catgctaatt gacccaaagg agggatttgt accgatgacg ttgatcatgt 60  
 acgttctatc attagtaac tccaccacat agttactccc aatacaaaa ttatttaatg 120

ttaaccagat gaccaacca atacatactg gcaataccat gactactatg tggcatgata 180  
 atagcttc 188

<210> 27089  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 27089

tgtaacatga ctgcttttct tatatataat caccaaaca aagattgcc taagtatctc 60  
 ccaccaaccc cgaagatcaa atctcatact cctccgttt caaaatacat gtccattttt 120  
 gaaaaattgc ggtaaccaag gacaggctaa ttgacacaa aagttcctat ttaccctag 180  
 tcctttatgt tctccattat atatttattt atccacctc ataattactc ccaatacaca 240  
 aattaattaa agttaatcaa attacaatac caatacatc tggcaatacc aatactacta 300  
 aatggcacta tttttgcttc ggtattgaaa agctcaattg gcatagttcg gttatcatag 360  
 tttgttaaaa ctcaattgaa ataacttccc tccattatta attatactct aatcttaca 420  
 tgttgtggac a 431

<210> 27090  
 <211> 170  
 <212> DNA  
 <213> Glycine max

<400> 27090

tccatgagga tcaactctgt gtacctgaag tactatgggt tgcttgctaa cacgatgctc 60  
 attctgaaaa actgcatgca ttgggatgag ccattgctcc tcgcattact cattcatttt 120  
 ttatcatgcg accattatag cgtgagggtac tctcctgtgc gcatagtcac 170

<210> 27091  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27091

cttggcatcc taganaaacc aatattcatt gtaacctttt ctcattacta gccaataaaa 60  
 gtccttttga ttcaatttgt gcatttctga ctttatgaca tgagatgaag ttcaaagatt 120

ggacctcttg ctagtcgtta ttgataaaaa gcttaaacac ttgtgcttga gtgaaacaga 180  
 agctgtgaga tttcgggttaa gcatctttcc atgaatctgt ctctgtcta gctntattta 240  
 gttgtgttgc ttgctaacat gttcttttct ctgaaaaact gcatgccttg tgaaaagcaa 300  
 ttgataaagg catttttgtt tcatttttta tcatgcgact aatattttgg gagttacaca 360  
 cctttgcaca taatcactgc atgttttgtc acctttntat ttnaccttg ttagttagtt 420  
 tacacacgtg ttcatactac acacaaacct tttacaacaa g 461

<210> 27092  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 27092

tcacgactga tttgacagac gttgtgagac gaacaacttg gatgcacttt tgtccctctt 60  
 tgctttctct aattccgagc tcacagctcg gacttactca tcctcttcag ggcctctat 120  
 ggactcatcc ttgataacct ctaatccaaa gagccaatcg aaggcgagtg tatgaactcc 180  
 atggcataca cgataacgaa cagcgacgcc attaccaacg cctccattgt ctttaact 238

<210> 27093  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 27093

cttcaaggag gtgagcttag ttatgagagg ggatagtgtg gccacgctct agcttctcac 60  
 ggaagtgtgc tcaaacaagc ttgtcaagga tgtcctctca agagaccttc tcaaggaagc 120  
 tacctactct ataaatagaa acatgtgtaa cacttgtggt aactctgatg aatgagagtc 180  
 ttgtgagaca tacttcaaag atgcacttct ctccctcttt tattccttca atttcgagct 240  
 ccccttttac tctttctctc cctctttctc ttccctatatt gaagcatcct tctaagcgtc 300  
 ttatccaatg ctcatcttga tgggtgaagct ccttcttcca tggcttattc cctagcggat 360  
 ggcgcctgct ctactactt ctctttgtc ttccactgca tcttcatgga ggagaatcac 420  
 cattaaagga cct 433



<210> 27094  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 27094

tgtataagac tatgttgcca ctaggaagac gggtagtatt tttcccgctt gcaatacaag 60  
 gcgagggttg tctcacgatt gagagattga actaactaaa tacatctata tggacataat 120  
 tcatcccggt aataccacaa aatcctaatt acagatagta attagaagtc tgagacgaaa 180  
 ggagggtcat agtgacctcc atcatattga tcttattgct gcagttagaa acacaaatga 240  
 ataccaaaat aattactatc tgatagcatt aaaaagatgt atgatttcaa ggcatgaact 300  
 tggtaaagag tgtgcttact aatgctgaag aggacacgct ttacatggaa ttcccatatc 360  
 tactcttgat ttgctaattg cttacaagag catatagaca tacatggaga ct 412

<210> 27095  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27095

tgagacctac gcgcttgtgc catatagctc ttgctatgag attatagaag aacactgata 60  
 ccacggcctc cgcgattaga gagtcacat taagaagcta caatgattgt gaccatatag 120  
 atgaatcctc agaccagtac tgaactacac tctagcaact actctgatat atagcgacgg 180  
 cctaaacaca ttgttncacg tatgaacaca attaccccaa tctgtgctgc tacgactcag 240  
 cactctttac tgggtgaatt gactattcaa caaatgtcta tttcccatgc gtgcgaactc 300  
 ctgtacatgg tagtagtcca ctatgccta ttgcttccac c 341

<210> 27096  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27096

tgtgatatca atggaatcca agattcogtt agtttcttgt cgttcaattc tattcttaga 60  
 aatgtgacct aagcgcttat gccataatgc tcttgagttt gcattatcaa ttctacgctt 120

agtagcatgt aattccgcat taaaggattc accataggaa gctacagtat caagtaaata 180  
tagattatca taagccaaga gtgaactagt tctaacaata tctgaattaa aagacaacct 240  
atacacattg tttccaaatg aacacaaata acacaatttg tccaaataag aaactgaaac 300  
caaattccgt ctaaattgacg atacaacaaa tgtgtatttc anatccaagc aaaaaccagt 360  
acataataat aatctaaaat gccctatnag cttcacctcc accaatttac catctccaac 420  
atatatctat atttcacaat caattggctt ccggtagctt a 461

<210> 27097  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 27097

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tatccagcaa cagatacgac cctgcatgga ggatttactt tactctatta tggcacactc 120  
ctcaagctca tcatccacag cctgcttcgt ccgtgcagca tgctgttggt cggctcatac 180  
catacatgta ctgcagcctt ccatctgcta ttacacctcg ccatacgacc aatatccgag 240  
gcgactactc aaccttgctt gacctaactg gagctgaaaa agactatgca catcatgcct 300  
tccaacgaga gacccatcct gcattc 326

<210> 27098  
<211> 468  
<212> DNA  
<213> Glycine max

<400> 27098

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aactttgatg aatgacagtc ttatgagata cacttcagag ttccacttct ttccctcttt 120  
tattccttca atttcgtgtt cccacctttt ctctttcttt tcttcatta aagcatcctc 180  
ttcaagcttc ttatccaagg caattcttgg tggatgaagct ccttcttcct tggcttattc 240  
cctagtggat ggcgcctccc ctcttctctt ctcttttgcc ttccgctgca tctccatggt 300  
gaaaaatcac cattgaatga cctcattgaa gctcatagat ccattctgca tagaagctcc 360  
acacgtaagc ttccatcatg cataacatgg catataattc tgtcaccata tacaggtcga 420

tgctcccatc ggctaaattg gtgaggcggt tatggaaatt acgcctct 468

<210> 27099  
<211> 440  
<212> DNA  
<213> Glycine max  
  
<400> 27099

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caattgtacc cttcaagtag cgaagaattc tgtttgcggc tgtagatga ggagaggtag 120  
gagcctccgt aaagcgacac acaacttcca ccgcatatag aatatcgggc cttgtattgg 180  
ttagatacct taaactcccc acaagactct tgaagaccat ggagtctacc ttctctcctt 240  
catcaaactt tgataacttc aagccacctt ccataggtgt gttcacggga ttgcaatcaa 300  
gcatactaaa tttcttcaac acttcttttg tgtagcttcc ttgtgagaca aagataccat 360  
tctccatttg cttcacttcc attcccaagt tatatgacat gagtcccata tctatcatat 420  
caaattcacg agacatggac 440

<210> 27100  
<211> 467  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27100

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ggggaaatta caagtggaag aacggtcacc agggaggtgg gggcaaata gctaactgaa 120  
aaagaatgaa atcaatgaaa taaattgacc ttcaattaaa aaaaaagtat tatatgtaac 180  
cgtaatttct tcccataag acacttatga agatctccca cgctgtctat atgccacatt 240  
gtagaacata aagctaagac caaccaaccc atcacgttag taattaatta agccatgact 300  
ctaggcctgc aaaataaaga cttttattng caaacaatac ttctaataat aacaatactc 360  
atgacatgat acatatgcta gtttattaac aaagactaag tatttttctt ataaaagaaa 420  
ccattctaata ataatttctt catatataaa tatatactaa catatat 467

<210> 27101

<211> 146  
 <212> DNA  
 <213> Glycine max

<400> 27101

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 atgcatgtta tgtgctgtta actatagact gtacctacgc tgcacactag tcctgactcc 120  
 cactaccaga ctgtgctgga gcgaca 146

<210> 27102  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27102

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 gggaagtatt aaacaattat gagtacttgt gttttattca catggatatt ggttgtacat 120  
 cagctattta attatttttt tcttttgtac ttttaacttt tccttttcat tctactgttc 180  
 aatatccttt gattctggga tcaacttggg ctttagcatt gatcatttat tacttagaaa 240  
 ttgttgagtt tttttcatgg tttataagca catatcttta atatatcatg gcaccacgat 300  
 gggcaagtgt gaacttacgg atattcattt gcatgcaatg ttcaogaatt caccgtattc 360  
 ttggagtgca tatatcaaag gtatatgttc atc 393

<210> 27103  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 27103

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 ctatgtcttt gagacacgct tcactttcta cgctagaaac catagagaca ggactcgatc 120  
 gtttgactgg cctgtctgac gatgatgaca ctctatcagc acttatttaa ctttgagata 180  
 tatgactgaa atatggagcc tctaaacatc taaggactat tttg 224

<210> 27104  
 <211> 444

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27104  
  
 catgcgaagt ggggtggaatt cctagagtta ttcccttatg ttatcaaaca taaaaaggga 60  
 aaaggtaata ttgtagccga tgctctttct cgggtgcatg cattactttc tatgcttgaa 120  
 acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga aacttttgga 180  
 gaaattttta aaaattgtga aattttttca gaaaatgggt tcttttagaca tgaaggcttt 240  
 cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt 300  
 gaagcacatg aaggagggtt taatggtgca tttnggtcc aaaagactct agaaacatta 360  
 caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg tgaacattgc 420  
 attgtatgta aaaaggcaaa gtct 444

<210> 27105  
 <211> 141  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27105  
  
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 gctcggtgac acgcttatat attcttaact ttgcaggctc acccgaactc acttactgac 120  
 tgttgctgta ctctgactgt c 141

<210> 27106  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27106  
  
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 gctatgcgag cctcgttgag aaaccaaaca tctctctggc ttgcttagca tagcggactg 120  
 ctaaacgaga gtgtcaaaaa ctacttaagt gagtgtaaca gcagttatac tcacacttgc 180  
 cagatgtcgg aaacttcac tctgcattca ctctctccaa aaatccgcat atattgcatt 240  
 tgtgctttct ttttgcatta tcaactttga agcaacaacc attcacaatc caagtaagtt 300

gctagattcc tttactctgt ttcttgtcta aaaacttttag gatagaagac ttcacttggt 360  
gcttcagatt cttagggcgt taatgggtctg ttagaattag tataagatta ggactatata 420  
cgctcagata ctgtattgag tatgatgcac acattgcatg 460

<210> 27107  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 27107

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agctattata gatgctacat agtgatatta cttgaactgg ttatatatat acattatggt 120  
gccattgaga tactattgta cgaaagacca ctagagctcg aaaaacataa tttaatagag 180  
aataacagcc tgtcatcaag tatataatcc tatatgcata ttatgtaatc ggatgcactc 240  
caactgctta ccatgacagt acggtgagat ggtttctctc tcttcgagtc gacgttgatc 300  
accatggt 308

<210> 27108  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27108

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acacctcttc acgaaaaata tttactcaac caaataatta tcccctttgt tctacaataa 120  
ttatcatcat ataaaaaaat ttgaaataat tatcatttta gattttttta tgtaatatta 180  
attaattttt ttatttatat tctttataat actaatgata aacaataaaa ttaaaaatta 240  
ataaataatg ataaagttaa ttttataaaa tattattgcc tctcattaat tttttagttt 300  
tttttttaat ttatgtaaaa ggaaaatcta agactactaa ttataatagt acggagaaat 360  
agtttcttcc tcatggaatc aacattgggt accatgtttc ctattgtacg tggaggggta 420  
ccatgcatgt ttcctttggt agcaaggatg tagtttctta taat 464

<210> 27109

<211> 276  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27109  
  
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 cacttgctcg tgacactatg ctgacaactg cttgatacga tgagcctctt atgcatagcc 120  
 attattgaga tatcactgaa gaatttacgg gttgaataaa taaatggcaa tccttgatcc 180  
 tccacatata tataatgaac gcntctgcc ttccaatggg cccgccccac acngattnnc 240  
 atatccgtgc actcttatga cctacaatac attagc 276

<210> 27110  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27110  
  
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 acctcttctg cagtttatcc ttgccgaca actccttgac atgatgagat acatatgcat 120  
 tgccaacatt gcgtcaagac tgaagaatga acgggataca atcattcatg gctgtcatgg 180  
 ctctgacaca ggtaactcat tatccgtccc gacttccaac aggcgcggtt atacattgat 240  
 tcat 244

<210> 27111  
 <211> 590  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27111  
  
 ccgcaccacg actgcggcca gagagcacgg atangacata caccacaac gcgaacgtgt 60  
 ggannnnccc ccccccccg agcncatgat gcgtcgctag nacgccaccn anacaagaca 120  
 caagcgcgca acngcgnagg gagngaaaga gggcanacnc agtctagtta aancanacac 180  
 acgcangcag agacgagcga gcanacaaag caaaaacaac caccgacaac acncgcaaca 240  
 caaagacgga gccaanagaa accgacgagg gccacngaaa gaacaaaggc ggnnagagac 300

aaaccacgcg gaacncgaca aaaaggcccc agaaacggca aaaaagccac cgcgacaggc 360  
acgacaacgg cggaagaaca accgacggag acacgccgaa ggaaccacg cccagaagc 420  
accggacccg agagagaaga acgacaacaa aaccaaacac aaagaagaaa caancacgaa 480  
caacaccgcn acaacgaggc agacaagagn ggcagccgga ccacagcngc aacaacaanc 540  
cnaggaccan cacacaagca cacaggaggc ccgagaagca cgacgaaacg 590

<210> 27112  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 27112  
acacctcggt ctcaatgtac ctattatgag aagctgagaa catattcgat gagtggcaca 60  
gtcacgggtat aaagctgagt catctatgag cgaaacatgt actacgactc agatatgctt 120  
cttacatact cgctcatcag cgtactcttt gtaatataat gcattactta gaggaaactc 180  
cttatctacc agcctagcca tgcctatctc accgaagcct cgagatacct gtatggtctt 240  
ataaacctag tcacatccaa tggacccgat tattaacact gtttcgaagg actgacgttg 300  
gacgctgcac gaacttattg atgcttcatt ggatcccacc tgacaat 347

<210> 27113  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27113  
gagtggaaat cttgtgcagt ggacacttaa ttttcctctc ttgctagagt tctagctaga 60  
ttcaggttct caagccttgt ccatccagtt cttattggac ttcaattcac aaccagaaaa 120  
ctctgtcttg attgagctgt actttataag caactctcta agatgagtct gtctagactc 180  
tataagcatt ntctagcacc tcatctgcta ctagtaataa ataatacatt aataaagtga 240  
aactctaatt ctaacagcag aataatgccaa aaaacaccta ataaacgata tatatgtttt 300  
ctccaattat aattgcacac acaccatcta ccaaatttc aaaacactgc atggcaaaga 360  
ctgctgcaat gaagccagca cgagtcctct tgcgctctt taatacacca gctggcaatc 420  
gtgctcatat tctc 434



<210> 27114  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 27114

ggcgcttatg cgtacggagc cagaggctgc cttgcctccg acatctcaca cactcgtgaa 60  
 ctacgatgat cacacctgag ctacgtcccc ttagctcgct atcttttatt taccctgtct 120  
 tcaatgcttt atggaatcat tgcagcttac ccattctggc tctcattgaa gcctcatgcy 180  
 acgaaggctc gacgacctcc tacaatggag ctcccttcct cgcgtctccc agagatgtaa 240  
 gctccacacc ggtata 256

<210> 27115  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 27115

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 gggagccaag ttatcccttg cctcctaaac ctcaaccact tgtgatagcc gctgatgacg 120  
 ccattgctac ttcccctaag ctcccttatct ttccctttcca ctgtattcca tgctttatgg 180  
 attctctgaa gtatcctcac attggcttca ttgaaacctc gtgcgacgaa aggcgcgatg 240  
 atctcctcca atgggtgcacc tctcataggg tagcctagct gtcttatggc cagcatggga 300  
 ttataattaa tacaaccctt tgttcctatc aaggggatgt ttgggaatcc ttcacacgag 360  
 cacaacactc ctgcccctcc ttctttccat cgggggaact agctaattgga cgctcctacc 420  
 atacctgcca agagttcttc ttaattc 447

<210> 27116  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27116

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tcagacacga gaacaaacac ggccggagcg gaaacacggc agcagcatac gtacaattac 120  
gccgcggaag cagaagancg gaanagaggc gaagcgcaac aaagccgaga acacgaggtg 180  
acaaagagaa atggatgaca aagaccagcg aaaatgaggg caagaaccaa caaccccaca 240  
gaagacggac gagacgcaaa gagctcaaca agcacgcca cccaagtga acggagcgaa 300  
accaagctaa cagccccga aagagacggc agcagaagag cgcaaacag gccagacaa 360  
acggcaacaa cggcgagatg acaacgcagc ccatggcgtg gcacgaccaa gggaacaccc 420  
ggcgaagaca caacgcacaa agacggaaga acgcacaaag cagcagacca aacacgcgga 480  
cagaccacgg aaacccg 497

<210> 27117  
<211> 504  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27117

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caagcatgct tgctttactc catgcgcca gaacgacgca tgcacctgca tgcacggcta 120  
catcaattct agttggcatc cttctgtaaa tatgctctga cagagagagg tcgaatgatt 180  
atggaatgaa acagactaat attagttggc ttcttgatc atcgtgaaag ctctctgcta 240  
tacatgagat ctttaggaca ctagaacctg cactatcttg tatattacga aatctgagtt 300  
gagagtgagc tggcaaagtt tcctgggaaa tattctagtc gtgatatact ataagattta 360  
ctgcgcactc ccatgtcacc actccattac ataaaggcca ggacacattc tgtgctattg 420  
atagctggga gaggtactc aaacactttc aatcgattac ctattacaga ccataataac 480  
gtattgtaat agccacaaca ctct 504

<210> 27118  
<211> 389  
<212> DNA  
<213> Glycine max  
<400> 27118

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cacatgcagt actagagcat caaaagttgg catccccatc taactatgct ctaacagaag 120

agtctaagtc tttggttctt cacaacaatt ttattagtcc agattctcag gatgcacctg 180  
 taaagcatga aacttttgga cacaaaacct gcactatttg ttatttacia aattgggtga 240  
 aaagaattca aatgtttctg gaaaagaagc taatggggaa gtcattaagg atcaacagcc 300  
 acgccaatt tcaccactcc ttttactagt tggcagtgtc cagattctgt acctattctt 360  
 ctcttttgag tgcctacac cgaactcat 389

<210> 27119  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27119

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 catgcatgca tgctttgagt tagcacggcg ctcgaggngc gtcccagagac tactgtcata 120  
 gcagactgta cctgagggtac gcacagctct ctatataacg agacaactgc tgcttgagaa 180  
 cttctgtgta aacctgtcg tgagaacctt ccttgaaca ctctctcgag aatctacgtt 240  
 gcctgtgtat gaacgcctgc tataggatga ctctcacac ttctgtgcaa ggtaggctgc 300  
 cctgcctacg aagggatgct agagcttatt gtcacacgcy atagcatatc acagctgata 360  
 ctatggcata tgcatgatca tggacgaggg tgccctctac aggactactc ggatgacctg 420  
 aatgcatgtt agaacataac taagagatgg gcaactacac gcctaccgaa tgaacactct 480  
 c 481

<210> 27120  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <400> 27120

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 ggacaactgc tgtttatgct acttatagca agcaggctgg ggtgaacaag ctttcgagct 120  
 tgcatgcaaa tatagagcct gcacgaggat gatgtcctta aatatgaagc actaccctt 180  
 ttctgatcat tgtaagatgc atcgaagaca actgattcct tatgactttg gctacaggcg 240

agtgcatccc acacatgtta cttctgcata tgtaacactc atgggcgcgg cgcgttctga 300  
agatacacca catgggtg 318

<210> 27121  
<211> 514  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27121

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gtgactnctc tagagctcga cctagcatgc atagctttgc ttgntgtgta ttcaattgcc 120  
gagcgtatac gagatacgt atggactcga atcgcacatg ctcatagcaa gtgcatgctc 180  
gcttaacttt gatctaggat gtgtgattaa ttcccggcat atatatatac gccctgaact 240  
cgataacgca tgctatgagc acattcttac gactagaact ttctactgac gatgtatgat 300  
tgattcacat catgtatagt gacgatcgaa atgaaaacgt catctgttaa aaagttatag 360  
gacattgact ttgttctcag attatcgatt gtgtcctgaa cttgccgaga tgctcggatc 420  
gataacaacat ctcatc aaa gttatactcg ataatttgtc tgcgtgcttg ttctgctggt 480  
gcagttcgag aactcgagat gagcagactc cgcg 514

<210> 27122  
<211> 265  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27122

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accgagatgc tataaattga aaacggaagc tcatagcatc tgcagaccac aataacatat 120  
acctaggacg ttcgatgaac taccataata taacaagacg ctcgatatcg aatacggag 180  
ctcctagcga atgctaccta caaaaacttc ttactcagat gtctgataga gatccatatt 240  
gtatagcgac acttgaaata cacaa 265

<210> 27123  
<211> 458  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27123

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ggatggagat actagaggat atcaagtgga aggctttcat cacggtatcc agtttgaggt 180  
tcataaggct ccctacagct catacatata ttactcgtt cttcaatatt taacgggtaa 240  
gatectccta ccttgccctt catttcatat cttgtactac aggcgtttca cgattggatc 300  
acagctctca ttatcctctc taacattatc ttataactcc cctctttgac gtgctatgcc 360  
atttagttaa acatgcctgc ttaactacta tcaccatgtc cctctatcga tgatgtgcct 420  
acgttctttg cctaggtgct acgcactccc tctgctcg 458

<210> 27124

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27124

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tctataacag ggtgtgattt tatttataacc agggctcgcc cccttatgca ctogatctct 120  
tacaagtgcg ataagagggt ggtctctgtg aagaaaagac cagtccagga cctctcataa 180  
cgtcttcgag aatgacttta cgaaaggttt ataccatct gcaacgatca tattctatct 240  
aattcaatgg ctgagataat cctcaaacct tgcctatcca ttcattctat gatcccttcg 300  
aggtcacatt agctaacaag ttttatttct catattctaa tactgaaata cccctttgga 360  
cgagcataca cttacgtcta gcgttgctcg aatacctgat atgaatatat tccacgattt 420  
gcatattgcc aacatgacct gtatgaatga gtccgacatc gaactcctaa cagc 474

<210> 27125

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27125

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cccccaattgt tgcctattg atnccgttcg acttntctgn gacgatatcg agctctcgag 60
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tgacagttgc tcgatggagg actcgaccga ctcaaccggg gcatagctgt atgacgtata 180
tagagggtt ctacatactc actttatgca tgagatctcg gctgttgaag acgctgcggg 240
ttcactgctc gtatacttgc tttagagccg ctttgtgtgt ggctcctttg ctggaggagg 300
acacatatgg tgctgtgcac gttttcttgc tcaccccagc ttactcttcg tagacttctg 360
tcccagacac tcccgttctt cgaatcttag tcatatcagc ggcatcaatt ctaacgtga 420
cctggtctgg atacctgtg cagaagcctt atctgatcga gcatgggata gatcctgcct 480
atgcatgcct gcatgttga tagtcan 507

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<210>      27126
<211>      457
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      27126

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ggcatctaca tactcccagt aaaatggatc gcgctttgtt gaccttgggt tcctgctcat 180
agctttcttt ggagccccct tcgtgttaac ctttgctgga ggaggacaca tcgaattctg 240
atcagggtat gcaatttccc aaagtttagt cttcaaagta aacttaccac aaacatcaag 300
ttcttcgaat cttttaaata ttggttccat tacttccttg atgctcacct cgggctcaga 360
taacccttgg tctganaaac ttagtcatct ccagaacntn nggattgaat ccagtggaat 420
gcaaccacta acatatctgt atagctcaca agcacia 457

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<210>      27127
<211>      382
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      27127

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ctgcaagcag gcacgcttcc gtctattact acgctgngag catagcatat tgatatgac 60

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gcttagatca caaggatata attgtgagcg tcgtagtatc cacagcatat gccaaactact 120  
aatacttact taaaacactc atgctccaag ggcgtaggat catatgatga tatcatattg 180  
tgcgcacac aatggttgaa ctctgattca tataagttca tctccataag atacttatgt 240  
gttgcgccat tgattccaac cctgagctta ctagagttga atatagtcac tataattaat 300  
atcgtctgga acttatatcc gactcactga ctctcgtagg tttcagatat gcgagaatgc 360  
tgtaatatcc aatctctatt ga 382

<210> 27128  
<211> 462  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27128

tataanaagt ataataaatt aaaaaaata aaatnaatac ttatattaat actatgtttg 60  
catcaaatat tcaaatgaac atttagatgt aatgataaaa ggggtgtgcat cttatttcaa 120  
ggatcatagt tctactccta atttcttctt aaagcattct ttttaagtaag gcttattaac 180  
atatgattaa ataatatattt aggggaattta atggtttaac tcatattcaa atattttcat 240  
aaccattaat taattattaa tttcgacatt tattttaaca aagaaattat tatttttgaa 300  
tattttaatt tgaaaaaata ttcttttgaa atattatttt atttacgtac tcaagtttgt 360  
ttgaaatata tgattaggta atattattct atcgctattg acataattta cagaanatgt 420  
tacaataaaa aagtgtgtga ggaatatatg aaatttgttt aa 462

<210> 27129  
<211> 487  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27129

gagggatgat gcctcgtgta cggctcaatc accggacctg agatgtacaa gttatcgcca 60  
ggcgagcaag cttattttgn gttttgagat acaatagaga ctcgacttac tgactcatgc 120  
ttatactgtg gctacagatg gaatcaacaa acaccgcagg atctatagtt ccagcttata 180  
tccataaaat aaaatgcagt gcatgcagca ccactatctg atgaagaagt tatgataata 240

caatcaagtg gtgatcgaat agtgtcataa acacacacat gcgacggatt catgtattgt 300  
gactgtgggg acaggacatg ctaatgatgg gactttgtat tagaccoccta acaacttgct 360  
gatcttacgt aggctgttg ataacgggga gacttatcct tctccccaga gcgcttttgt 420  
atattattacc tatacctaac acataggctc acataatcct ttttaagagag atatataaaa 480  
ggggccg 487

<210> 27130  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27130

agacattttt catgctgtgg agacagtttt angtatgtgt tntngaattc aataaagacg 60  
ggtcataagg actcatgcaa ttacaattca tcatgaagga ttcaagaaat tccacagaat 120  
ttaaggtacc aattttccta taaaatcttt gaagtgatgc acatgactat tgttgcagtt 180  
tttatgacaa aacacgaagc aattagctca cagtgttata aatacacaca tgcagctaata 240  
tcatgtattt tcaactgtgtg aacaggacat gcaaaggatg ggattttata ttagacatat 300  
ttcatcatgt tggctgtatt ttagcttgcc tgatataggg gacaccttac 350

<210> 27131  
<211> 329  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27131

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attccgcttg tgaacatgca gtatgataga ctgtgatgat ggttgctcct gagctccatg 120  
tgtaatctac atagcgctct acactcatca gcctaccgct cttatattac actgacacat 180  
cangacgtag aacgagctat cactctatcg aatattagca cgtctcttac gcgcatttga 240  
aactgctatg cgtggtacaa tgacttgtat gcgctggaca ccgcgctgga gacctactgc 300  
acacttgctt gtatgagata gtatgctga 329



<210> 27132  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27132

cacggcnntt tgatgagtct gttgcatggc gnnchamtg gtanagntcg ctncnnntgc 60  
 tgatatggat caagcagaca cccctgtcgt agaccgaaga acaannangg aaagagggga 120  
 agctgggggg cctnaagcga caagacatgc ttcattttat tcttgtgacg atgttctaag 180  
 tttggctatg acaatgggtc aactgaaaa tcattatgga ttctcattga gctataatct 240  
 catagagcta ccttgtaatt gtcggtgtcg acagcaccgc tagcaagagc ttttcaccct 300  
 gaatatatca ggctaactgc ccataagatc accaaggccg acaatgctgt aggttgtaca 360  
 ccgactggag atatgaagac gctgagatat atttattgga cttgccgcta gaacgtagaa 420  
 ggaccttgct cgacactata acctcctatg acgacctgcg accttttaat ctacg 475

<210> 27133  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 27133

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 gtagaaggca gcgacattcg gtcagcacga tagacacaca tttggaaaag ttggatgctc 120  
 tgtaaacata tcggccttca gatgaaacaa gcgccgtgcg ctatttcttc gatgataggc 180  
 gagatatcta tcttgcttag gctgtgctca catgacgagt atgatgtcat catggaaccc 240  
 acacctgctg ggatcgtgag ggcgctgaat cgaaattgtt tccgtcagaa tgtgaacatc 300  
 tata 304

<210> 27134  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 27134

tagaacaata aacttggcct tctcttaatt gtctttgttc ttgtcgacca cgatcaacaa 60

agtacttttcg gcacctacta tatgttgact tgaccaacgc tgttattgga atgctgcgac 120  
 aatctttcaa caccttattc acacattctg ataggttggt tgtcatgtga ccatactctc 180  
 gtccagatgt atcgtaagcc atgctccatt ttttctttga aatgcatca atccatcttg 240  
 ctatggctgg actcaattga cgaaatTTTT ctaagtTTTg atcaaacaca tgcttgcaag 300  
 gagtgtacgc tgcataaat ttgttaccat caaaagttgt acgtagatat gaaactcaca 360  
 ttaacttaat gtataaaata aaccttagcc aatctcttga acatctcttt atgtttcgcg 420  
 ttgctgaatt agcgattgaa attactggct atgtgt 456

<210> 27135  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 27135  
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 tagtcggcat ctctatctaa cacatgctgt actgaatagt caaaggatta ggaacgacac 120  
 agacaaatat atgaggctct gagacataag atgcacctgt atagcatgga actacaggac 180  
 gcggaacctg cactaaatgt aattacgaaa ctgattagag gaatggaaag actctggcga 240  
 ataagcgaat ggtgaagaca ttactgatca acagtgcgc cgctacttaa cagtagatct 300  
 gatatatggc caagcataca ttctgtagca tattgatagc ttgagaggag gctacacagc 360  
 actactattc tgtcgcttat ctaaccaga cacatagtta tgtact 406

<210> 27136  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 27136  
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 tgaatcacat gcagtactag agcatcccaa gctggcatcc ccataact atgctctaac 120  
 agaagagtct aagtctttgg ttcttcacaa caattctatt agtccagatt ctcatgatgc 180  
 acctgtaaag catgaaactt ttggacacaa aacctgcact atttggtatt taaaaactg 240  
 gctgaaaaga attcaaatgt ttctggaaaa gaagctaacy gggaagtcac tactgatcaa 300

cagccacgcc caatctcacc actcctttta ctcaggggca gtgctcagat tctgtaccta 360  
 ttcttttctt ttgagtgttc tacaccgaac tcattttcgc taaattatca acaacagcca 420  
 aatagttatg tactggaaag gtccacacag aga 453

<210> 27137  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 27137

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 catcgagtga acatactaac tgccatatct accaagccaa tattaggatg gacccttttg 120  
 aagcttcata tgaacgatag gacaaaactc actatttggt ggtacgatga tggagaagca 180  
 atacttctag taccgaaaat gctgcttcaa atgaacgaac aatagatgta gattcttgag 240  
 aagataaaaag cata 254

<210> 27138  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27138

gtacttcggg cgtgtattat agagcaacac ggtagctgga tggattgttt gccattgatt 60  
 gagtttactt acaacaatag ctaccaagcc agtattggta tggctccttt tgaagcttta 120  
 tatggacgaa agtgcaaaac tcctatttgt tggtagcatg atggagaagc agtacttctt 180  
 ggaccgaaa tgctacaaca gattaacgaa caagtgaagt tgattcgaga gaagataaaa 240  
 gcatctcagg ataggtagaa gagctattat gatagaagga ggaaaccact agattttcag 300  
 gaaggagaac atgtngtttt gaaggtttct tccgtaaccg gngtcggaag agctctcaag 360  
 gctangaagt tgacacccaa gtatctaggt ccgtatca 398

<210> 27139  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 27139

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gtcgaactga cggcatgctt tcttgcccag atagcgagtc tcacggagga tatgctgcac 120

gtgtacctta ctgtatagct gtgactaacg actgctctac tgttctcctt atgcaacatg 180

atgggcgctc accaagaagt gtaacacgcc tgatacggat gaccttatgc accttcacta 240

cgaatatgag atcatacctg tactgaaagc catcaactac aactgagagg ttccacgggc 300

gccccggaat agtgctgccg cggggggtag cttacatgct ttgcaatgaa ccttgacagg 360

tgagacggcc tctctcgtct gtgagatcga tctgtacca tgactctctg gggaccttgc 420

cttatgcgca acccaccatt ggacactgct atgctagata tgcgatcatt ggttattgct 480

ctgcctctgt ctcttggtcg 500

<210> 27140

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27140

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aaattttcat gcaggtggac cttcttctag taattatgac ttaccgcagc ctccatcccc 120

tcttctattc ccacctatag caattctaaa caaaaaaatg gaagaagcgg aaaaggagat 180

cttgagagacc ttaaaaaagt agaggtgagc atacctctac tagatgccat caagcagatt 240

ccaagatatg ccaagttttt aaaggagttg tgcaccaca aaaggaagct canaggccca 300

acaatcagca ttgataggta aatctgttcc tcacattctt gagaaatgta aggacccagg 360

tactttctgt ttaccttgca ttattgggga acagtaaatt gagaatgccg tgctagatct 420

angagcatta gttagtgtca tgcctctgtc catatttaat tctt 464

<210> 27141

<211> 253

<212> DNA

<213> Glycine max

<400> 27141

catcaaacat tgagcttgac tgatctgccg acggatcgac tttagatact atattggacc 60

tgacaacagc tgcaatgggc gatgctacgc tactattgag agaccatgcg tgtatatggc 120  
atgggctggg gagctagatt tgatagccga tatgaaacat ggtgtctatg gctttataca 180  
tacgtaggta aacatatcac tagcatatac aggatatact atatgtatct ctcatatccc 240  
gtatgtggga ttg 253

<210> 27142  
<211> 455  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27142

tnttgaaatg gactatgtta tcgcanatcg aatttaatga atgtatgaag aaacattgag 60  
catgaatgaa atggagacag aacgatctaa aatcacattt caacattgac aactgggtgca 120  
atggccgata ctttgattca aatgatgaca catgcatgta taggcatggg ttggtgatat 180  
tgataagata gctgatatga aatatgttgt gtatggcatt agtaggctgt caatcagcat 240  
agacattgca ttttttttaa attaattaat tatatatcat atcccataaa ttgtcttcat 300  
gaattttata aacatttagt ctcccatttt taaagccata ttaagtggaa tgtggaaaaa 360  
gcgtataaaa tgagatagct gatacattca accagtttct gtatcttctt gttgatnttt 420  
gactcactta cacgttacac aatatcatgt tcaat 455

<210> 27143  
<211> 216  
<212> DNA  
<213> Glycine max  
<400> 27143

atcatcggac tctatgtcta tgtgatgata gaccactaca attttcctaa caacctctag 60  
ttattgaggg ctgaacatct atcatatcct ggcaattgcc tgatagctct ctgtaactcc 120  
ttgttggcag gctatgtgta caaccttgct ctgggcttgt ctgacaatct gtgtcaacct 180  
gagctcttga taagctaaat acctatttat cccac 216

<210> 27144  
<211> 449  
<212> DNA

<213> Glycine max

<400> 27144

agcttcatta agaggtctcc tctgaagctt tttatgatgc ttctagcata ctccagacat 60  
cttctcaaag atcccaacag tcagatcatg gacaagtgtc ttgtgaagtt taagaccaaa 120  
tttcgagaag atccaacggt taatgaaggc tgagcagcgt ttttaccgag gcagctgcat 180  
gtagctttct ctagaagctt cattaagagg cttcctctag aagcttcctc gtggcttctt 240  
tgagaagctt tctcaacagg attctttgag aagctagatc cttatctatc cacaccctc 300  
tattaactaa attaacttcc ttaaaaataa ttacggatga aaataacgca acaaataatc 360  
aaacatcaaa cataattact aataatatat agatatatat atcaggggtgt tacaaggaac 420  
taacagattt gaggtcacat cctcttcaa 449

<210> 27145

<211> 229

<212> DNA

<213> Glycine max

<400> 27145

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gattaccata gggtataaac tctgagatag aagggctctga gaggtgacc tgtgctactc 120  
ttcacttgta cccatattta tatacttatg ttggatgagc ctgctatcga tttttgactc 180  
tcgagcctgg attgttgctc ttgattctac gaacctgtgt atgagatac 229

<210> 27146

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27146

tttttgtgan aggatgtgac tcttcacttt ttttatttga atttcaacgt tcaaacacac 60  
tggtaatcga ttaccaaatac attgtaatcg attacaacat tttgaaatca attggaacgt 120  
tgtaaattha gttgaaagct ttttgaaaac aattttgcta ctcgtaatcg attacaataa 180  
tctggtaatc gattaccaga gggtaaaaac tctttggtaa aaggttttga gaaaaattca 240  
tgtgctactc agtttttgaa aaaactttct aatacttatac ttgattgagt cttctcttga 300

ttcttgaatc ttgagtcttg aatattgatc ttgattctag gaacctgaat cttgaaactt 360  
gattcttgat tcttgaaatc aaatttcctt tgaaccttga agtggtcttg attcaatctt 420  
gaactcattc tttgattctt gaagtcac t 451

<210> 27147  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27147

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gttgcaggta ctcttccttc ttcagatact cttccttctt cctagcagct agtgcctcaa 120  
tcattcttctt gttagctcca gacattgacc ttgctgcca cactgctttt gcaatcaggt 180  
tactcaacat aaatcttatt gacatattgt tctttgattt tccatagatt aaatgtgtaa 240  
acatagatta aattcttatt caaactttgg ttataagttt ttggtagaag caagctaatt 300  
gagttgctca cctttttagt taggtagttg caattctata ttagtcacca cattttttgt 360  
tgctaggtat gaattaccaa ttnttggttt ctattcgtct tttgcaatat cctggaggcc 420  
aagctgatng aatg 434

<210> 27148  
<211> 455  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27148

cgcgcccttt gatacgtcgc attacgtgac ctaagatact aagctctctt atccagacac 60  
attcttgngg gangcgcgtt tgtatgggaa ccacgcggg aaggcgaaat tgcagcacga 120  
ctccgcccc tcggacccca gcctggacgt agcagccaga gcgacaatcc tatgctcgga 180  
gctgcaggct acgcctagca gccaaacggc ggggcaatga ggaactcagc agaggacaaa 240  
cgaatagggc tattagagcc tcatagaaaa atgtgaaagc gatacaaaga cgcataccac 300  
aatggatgaa gaggctcgcc aagcacgcaa tcgagtgcc acctaacagt gggacgcgga 360  
tacaacgcac ccccggtggc cgcgctagcc gaaaagcagc ccggacgaat cggggtgcag 420

gaccgacgac agcagtgagg aggaaagga aggan 455

<210> 27149  
<211> 88  
<212> DNA  
<213> Glycine max

<400> 27149

tgctcatgga acaatctgaa ggagacgcta tacgatacat cttgaccac gtattgcagt 60

tgtcgatacc ttgactgcag tgagtctt 88

<210> 27150  
<211> 467  
<212> DNA  
<213> Glycine max

<400> 27150

ctcagcttct caggaagctt ctcaaggagg tgagcttagt tatttgatgg gtgtctgtag 60

ctaagctcta gcttctcaag gaagtttctc aaggaaacta cctaggctat aaatagaagc 120

acgtgtaaca cttgttgaaa ctttgacgaa tgcgagtctt gtgagacaca cttcaaagat 180

caacttctct cctcttttct ctccttcaat ttcattctcc cccctctct ctttcttttct 240

ctccattgaa gcttcctctc taagcttctt atccaaggca ttctcttggt ggtgaagctc 300

cttctttcat ggcttattcc ctagtggatg gtgcctctc taacctctac tcttttatct 360

tctgctgcat ttcaatggtg gaaaatcacc attgaagtac cttagtgaag ctcatagatc 420

cagcctccat agaagttcac aagcaagctt ccatcaagtg gtaatca 467

<210> 27151  
<211> 231  
<212> DNA  
<213> Glycine max

<400> 27151

tatcagacac gcgctgaaag aaatcctcgc gatactctca cgagatgcgc atgattctaa 60

cattctccac agaagtcctg agcggggcgca tatcagaca agaggctctg aataaatcca 120

cgcgctgctct tgtgatatta cactgatatg aacctccaca cggcaacttt cgagcaattg 180

aattggacaa gagctttcgc acggaagttc taatcatgtc tatatgagat g 231



<210> 27152  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 27152

ccatagcaat cgctggagag tttccaacgt ctaatcataa gcggctccag atatgataca 60  
 tcctgaagag gacatatgag cgataggata tgaccatagg aatcgatgga gagcttccag 120  
 cgtatagtta caagcgtacc ctgattcgaa gtcacctgag agaacatacg agcgtaagga 180  
 tatgaccata gctatcgctg aagagtttcc gatgtcaatt tatgagaggc tccatata 238

<210> 27153  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 27153

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 tttgctctta cettgaacgg gagtcaagaa cttccccgat tgttagccaa ggccaatgcg 120  
 atggcagaca cctactccgc ccccgagag attcatgggc ttctcggcta ttgtcagcat 180  
 atgatagact taatggccca cataattaga gatccgtaag agactagtat ggtctctaac 240  
 accttgacta gatacgactt cttttatgag ataaaatgag ttggtcccat gtttctactc 300

<210> 27154  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27154

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 aagagtcagg tctatccgag gccacgagc ataggattgc ggacgaatat gcccaagtat 120  
 acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaacatgt 180  
 ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240  
 aggccaatgc gatggcagac acctactccg cccctgaag agattcatgg gcttctcggc 300

tattgccagc atatgataga cttaatggcc cacataatta gaaatcgta ggaaacttgt 360  
atggtctcta agaccttgac tagatacgac ttcctttttg nataaaatga gttggcgcat 420  
gtttctact 429

<210> 27155  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 27155

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gagtacacgg agagagctga gaagctcggg gatgtgttcg tactgtagcg accgcatggg 120  
ggtatgagct cttgcttttc agactatttg attgcatgct acgaatgaat gaggttatgg 180  
gagagacgtg attgactgca ctttctcgaa gcgtattatt atctatttcc tagacacagc 240  
ctattacgta aagatggagg gctggcagag tattaacact atcatacgat a 291

<210> 27156  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 27156

actcaagcta gacaaaatta tggacaattg tcttgccttc aggggttata tagctctcgg 60  
gatgaaactg aactccctgg tgaaaaaaaa aatcaatatg tgaagagaag agaagggaga 120  
caaagtgcaa gttcaaagat aataataata acaataacaa cagaaaaaag gcatgaactt 180  
cagatcagca gaatctttta ctgctaacta tgaataaatg aggtaaaagg tttaaatttg 240  
attgtaaagc accttcacga gtagctaagt ttcctaattt ttaaacacag cataaaatat 300  
aaagattttg ccctgtaaaa gtataaacac taaaaaagat aggtgacata gacaagatat 360  
aggggggttc atcaatccag gaaaagataa acatggactg atggtaaaat aaattacatc 420  
tactatgtaa ttctatttga caaaaca 447

<210> 27157  
<211> 498  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 27157

cgggatgtgc gtgatgcctc tcggtcaatc agcctcagct gggataactca gagtcatgat 60  
 gcatgcatgc attgcttgca gataaaggta cttcctcaaa gcaagcgata gaagagggtc 120  
 tcgatgacac gcataatntac tattctgcag tgcgaacgaa ctactgctgc catgaacata 180  
 ttgacgatgg gggacatacg cgagctgaga cgtgccgtct actagactag acacagatta 240  
 ctcccaaccc gtccatagtc atactcagac tctaccaaag actatcctta atgactatcc 300  
 tgtaatctat catcgccttc cctaaatgat gcactacgcc atgacactct tcttactatg 360  
 acgaatacca gttgtagccc catctatatc gcgaccact ataggaagat cgctgctcat 420  
 cagctctgtg catgccaccg atgatggtgg acgatgctta tacatgcatg gnagtatata 480  
 cgcgaccgaa gtgctcct 498

<210> 27158  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 27158

taataaaatt tagttttgat gagaaattga ttattgttaa tgtaaaatta tttccttaaa 60  
 caatctatat aaaacaagtc atgtccatt tttttaacta tttatagaat ctatcaccac 120  
 ctccaaacta ccataaacat aaaaactagg gttacctttt gtgagtagag aggtgtgtct 180  
 attgtataaa acaatttaat tcaaacagtt caaagttatt atcagagtca accaaagaaa 240  
 attttctatg actcttatct aaactatcat caaatacaag aaaagatggt ttacgttatg 300  
 acatttttca taattaaaag attaaaagtt gtcaccacat atatatagtg acaaactttg 360  
 gattgatcac ttatcatcac taatatgcaa gtcactgttg tattagtgat gaatatttta 420  
 gatgtcataa aaatatatat tgtgatggaa atgttgtcac 460

<210> 27159  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 27159

tgttacaacc aatatttgtc cgaccaagcc acagttatct ctaacacata agaaaatttg 60

ttggtttagat tgcacaatga ctaacaccat attgtcttac aaacgaataa gcaaattaaa 120  
 tgcatagtct cttttctcaa gatgaataaa gagttttgag agcttttcta aactctacaa 180  
 gaatatacac agagagattt ttacacagaa tgaaataatg agtgcttcaa atcatgctac 240  
 atatcttcaa agcttctggt atatataggc cttttttaat caagtaattg ttatatctaa 300  
 acggacatat ttcctctctt aagcttatgt ctgaagaaaa tggacgctgg ggcattaaat 360  
 gtgtgcatta tatgcatgta ctgcttcatt ttgagaaacc actctatgtc gctggcatgt 420  
 tgaacactac aacaagagat cact 444

<210> 27160  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 27160  
 tgcacatgtg aagcaattaa actttgtctc aatattaaac agatggcgta tgctatgctg 60  
 gtatggatag ggtggagcca acacttttct actatttact gactgattat atccatggat 120  
 ccgtatggct cgttgaatca agatatttcc ttagatcatg aggaagatcg aaatgaagta 180  
 ggtgcttcca tgtatactgg agagctaacg catgcttgag cctt 224

<210> 27161  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27161

catgcactca cctataattc tattcttcgt aacccttaaa gccttggtcc actccttgat 60  
 ggagctcact acagcgcaat aatgattctc catgatatca ccttatcctt acagaagtct 120  
 tgagctacta aattgtatgt agaatgggtg tgagggggaa tatgatacac tgactgacgg 180  
 aggataatga ctattcttca agaagtatgc ctctccatgc tctatgttca gagtgatgcg 240  
 gctcttgcta ctacatgcat gttgaaaaga tctatccagg agaatagttg actangtcgg 300  
 ctcaattgat ggctattcct gagcaggata cttattccga a 341

<210> 27162

<211> 452  
 <212> DNA  
 <213> Glycine max

<400> 27162

tgagtgatat tgtcacagaa tacacttggt gttctttctc catttcatcc accccacttg 60  
 aattctagtc ggcgattagt taaaaagggtg tatattttta cagcattgag gagaaataat 120  
 aatcaaggga ataatcattc tattttcaaa ataataattg ttacagctgt catgaattac 180  
 tagtagttag ttagaggggg taagaaaata aataggaaag actgacagag ggaggagaat 240  
 aataaatgta agaagagttg gcctctcaaa gagctaagtt aggattgatg cagctcttgc 300  
 tacttcatgt attttgataa agaactatcc aaggaagaaa agtttgactt aagtgagctc 360  
 aaattggatg gactaatcac tagagcaagg agtaaaagat ttcaagaaga gtttgtcaag 420  
 agactaaatt ctctcatgga gggaaaagaa ga 452

<210> 27163  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27163

ntgtccgcan aaatcactga gaaccgtata gatgtcctgc gccttacacg agcatctttg 60  
 gttttatcgg ttaacacgga ccattcaaaa gcataaaaat caacacatca ctttactgcc 120  
 ttcgcgagaa ctacgtaggt ctgatttcct cttcgatgga ggatacgtac gagcaaaagc 180  
 cccgcttttg tcgacctcgt gagacggtta gaggtccaac gccttagctt ttctcacata 240  
 gtacaatgga tcattttaag gtccaaacgc cttaaataac cgccttccaa gtganaagaa 300  
 tcacttgatt cgcctcttgc gaaagaactg cgtatgtctg atttccttat cacaattgat 360  
 gaatacgtat gagcaatgga aacacccttg tcgaccacaa aatgatcaat tatacataac 420  
 aggctaaac tgacatatta ta 442

<210> 27164  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 27164

tctaattggat ggagcctact cactccatac attctctgat tcacgctgta ctcacacgct 60  
 ggattcatat catacaaaga actgatacat gattcaatca ttcaactgca taaacaacct 120  
 atatgcacac ctctctaact atactaatcg taatatgcat gactgacatc tacttcaact 180  
 gattacctga tctctacttc gtacgactgc ttctcctctc cttacaagga ctactctaac 240  
 cactctactc atgctgtcgc tgactttcat 270

<210> 27165  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27165

tcttatccaa ggctcatctt ggtggtgaag ctcttcttac catggctcat tccctagtgg 60  
 atggcgctc ctttcacctc ttctccttg tcttcgctg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180  
 gcttccatca acacgtccta gccatcagag gcttgacccc cctcgccctc aaaggattac 240  
 atgtcctcgc cttcagagga ctgcatgtcc tcaccttcag aggactacac gtcctcacct 300  
 tcagagggct acacaccctc accttcagag ggctctatgc ccttgccctc agaggactgc 360  
 acgtcctana cntagagga ctacacgtcc tcaccttcag aggactacac gtcctcacct 420  
 tc 422

<210> 27166  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 27166

gcatgcttct accttctgcg ctttcgagat cacttgcaat tacagacaca acttgacaac 60  
 gatgagactt tctcgcgccg aggctatcc ctagcggagg agtcatgcca accttagatg 120  
 gttgacgatt actctctacc ggtctctgcc gctgttcctt ctgtcttagc cgtacatcta 180  
 gcttctaccg gaggctctc cgcacccctc tcttgaataa cttgtgtgga ccatgactgt 240  
 gcctcacatg ctgtccct 258

<210> 27167  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27167

tctgccctat tntcctataa atagggggag aagtgaattt gtttaaattgt tcagctctcc 60  
 tggtaattcg agatcacttg aaattagtga aaaaaattgt ttccgtgaag aaaatccaag 120  
 ccgaggcatt tccataacgt ttccgtagcg tttccgtggg taatttcacg aagattttca 180  
 accgttcttt gacgttcttc gttcgttctt cgtcgttctt cggctcttcaa ccggttaagtt 240  
 cccgaaatcg aacttttcaa ttcattctat gtaccattag tggctctcat ttgttatcca 300  
 tggcctccta tgggtggtgag cttcttctag actcatcttc tccttgaagt ggcgtctcct 360  
 ctctctcttc cttctccatt ccgctgccat tcctcttcca agaagcaaag gaatccattg 420  
 atgaagaaga tcctaggcct acaagctcca atggagctta caacacg 467

<210> 27168  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27168

gggatgtgcc tgtaacgtg catatcacac gacctgggat ccttagagtc acctgcngcg 60  
 cgcttgcttg tctttcgatt cctgcaggag gcatctaagg atgacgctga gcttaggttg 120  
 ggctagacct gcgacggtg atcagaacga actagactat cctatggagc aggggaccaa 180  
 gctcgcatag gatgacactg gctactgact cgagggtgnat ttaactcacg ctacaacata 240  
 catcacgagc gtttgattga tcttacatct atctgtatgc acatcatctc tgctattaga 300  
 gggaccaaac gccattaccg acggctgtga gttgtactta cttgcataac cactgggtga 360  
 gactaactga gtataccatg aggtagtcac cactatctct gtgatcttcc agagccgagg 420  
 ctgaatagac cctgccttga ctactcgcgt gagaactctg ctcagattca ttcattataa 480  
 tn 482

<210> 27169

<211> 451  
 <212> DNA  
 <213> Glycine max

<400> 27169

taggctaaat tagtctaaac tgtcgtaagc tatgtattct atgtctattc caacaagagg 60  
 gatctaagga tgaagcttag ttttaagttag tctaaaccta ggaggggctgc ttaaaatgag 120  
 tctagcccaa caagagggat caggggacga agcttggatt gattcagtct aactagggat 180  
 cgaggtttag taacttaggc tacaacatag aacacaaaag tatgattgat tagagaaata 240  
 tctttatata catcagctcg tttattagaa tgaccaaca tttctaccta ctgctgtcaa 300  
 ttctaattac tagcattttt actgggttta gcttagactt agtttaatca tgttctaaat 360  
 catcaattat caatgtttct ttcaacaatg ccttatctct gaatctaacc ctgtcttgta 420  
 ctagttccct gagttcaata ctgggattca t 451

<210> 27170  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27170

ggggntgttg agtcgctcgt acgcgcnaat acanctcgga cctcgagatg ctatagagac 60  
 gaccggctgg catgcactgc tagcttcgtc acacgaacag agtgtgaact gcagagttga 120  
 gatcacgact ctcatctagt aggaggatta gcggtntct gagaatttat agtgactaga 180  
 ggaggatgaa acatgatgac tgctatgatt gtctatacta gctcttagac ccttatatat 240  
 gttagcacca gtgcacctta taagcgtagg atcttcatcc tctgtggact acattctatt 300  
 gtagtactga atagtgccta cttatctgta tcaatgaaga tgatagagga cgatgccact 360  
 gtcagatgat atcatgagct ctataataag catgctaccg tatgangcac tcgttaatat 420  
 ctgctgtgan gagcgatatc tttgaatggg gtgggtgata ctatcatgat ggatttatgc 480  
 tcgtctagag ctttgaattc tcaggacaca tatg 514

<210> 27171  
 <211> 457  
 <212> DNA  
 <213> Glycine max



<400> 27171

tgaagtgaag agagagacaa gggttagaat agactattat ctggcagaag aaccaaggtg 60  
aatagcagag tactgaagca aaaaccttag cttttaggag gattataggt ttaggagtaa 120  
tttctacgtt cctagaggtg gatgagacat cccactact ttgtaatctg gtattctctc 180  
tgacaccctt ctctttcttg tgaaaggtgc tcccttgtaa tggaggggta aaatcctttg 240  
ctgggaaatt ctattgagta cttgatgtaa atacttatca tatctattcg atgatgtttt 300  
catgtgtttg ttgtttctat ctgtgcttaa ttatcgcatg cttttggctt gatcacccat 360  
ttgtatgtgc tgtaggagc ttttaactctg gaaaatgtat tgcacctta gatctggata 420  
gaacagggct aggctatcgc ataactctgga cacagag 457

<210> 27172

<211> 437

<212> DNA

<213> Glycine max

<400> 27172

ataaagctac gcgctgggtt aaatTTTTgt ttgttctcta cacaacgagc tgttgatgta 60  
gacgtcccat taaccttga taatatcttg cctagctcct ataatagacta gcggcgccctc 120  
tggctctata ttgatccacg cgctctatgc taatgctggt tatcactctg gaccgagaaa 180  
atgcgggtaa gtcttactac gagtcactgg acccttacac tctatgttag gatgcagaga 240  
ttcctcacat gtaatctatc ttgtcgaagt gaatgcattg atgggagtag gccctgtacc 300  
atccttttgc ttgttgaaca acttgcgaca aagcatgggg agaatacac atatatctta 360  
tatcgtatgt accagccatg tttctccac ttcatgatac ctaagcttct aactacgca 420  
ctgctctata gagcagg 437

<210> 27173

<211> 177

<212> DNA

<213> Glycine max

<400> 27173

actcagcgtc tgattcacca gatgcacat cgcagtttgt tttagtctcc gtctctagag 60  
ggcatctctg ctactgctg agtctgagca ctatatgtgc agcaagtga cgaccatcac 120

gtggcctatc ataaggggtct ggcacaattt actgagagct tttacagaac actttgc 177

<210> 27174  
<211> 172  
<212> DNA  
<213> Glycine max

<400> 27174

accagatgtg cgtgcgggat catgtatcac ctattctcag agtaatatac ttctgacgct 60

actgtatacc cgacaagtgg cagagcgtga tccagatgac atgacctcta tcctgacatg 120

agccttatgg tataggtctc atagtctgca tggttgctgg tgcactctat at 172

<210> 27175  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27175

tagtaaagct aagcactaac aatctccnc tttgtcatat tttgtctaaa acatacttag 60

acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttc cattatcaga 120

gtaatcaagc acagcggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180

agacatctca catgacatct gctttctgct tctgctccc ctgtctccat gcttactgca 240

acatcttcta tcagctacta gtcttctcca ggatgtcaag acgtctcctg tgacatcagc 300

tatctgctcc cctgtctcc atgtctttac tgcagcatct tctaatanct tccatcagtc 360

atcatcagca gcagcagtct cccctcana atcgtataca tacaactccn cctcanaatc 420

atgaatcatg catacatcgt atcctactgc catacatcat acata 465

<210> 27176  
<211> 495  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27176

agggatgtga atcgtgacgt caggacatat cancctcgag ctgnnnnact ctgagccgac 60

ctgcgagccg cttgcttaga atcttaatga gagtgtaacg aggagagcat ggaaacactt 120

gttcttttctg ctgcatacct catggctttc attcaaagga cgttcacccat ggagtaagta 180  
gtctctgcgg gccngattac catatcnggt gttagtcgct cacgcagtat catgacttgg 240  
tttgagatat tgatccccctg aatgtacaac cctccaagtg atatcatacc cgctctgatg 300  
tgacggagca ctggctctca attactactg tgcattgaccg tggatattta cctatctagg 360  
tgaagagtca aatacaatct gaacagcttt gtgcatcgat tcaactgatat gtcataagata 420  
cacttgatng cattgaacac atcacgatat gggactctgc gaacggtagc cgacatgtca 480  
tcattgtcta ctgtn 495

<210> 27177  
<211> 506  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27177

ccccccggca gaggggatgg accaacaggg cccccccagg gttgtgcctg agcgggaacaa 60  
aaccgcgcaa caaacggaac agaccagttc ttgccgagaa caaggagacg agagagaatg 120  
aaacagaacc caagccacta ggaagaacat aggttacgag caaactcgac gaccacagag 180  
gtggaacaca caggccaacg actaccacat cggggcaagc cactgccacc agccaaacgc 240  
nggcgaaacg cgctccaacg gaatggacga ggaaccaacc gagttcggaa agccaaaaga 300  
gtccacagat gcaaaggcca acgataacca gtgggcgtga gacgcgagag cccgatgcaa 360  
atgtcaagac gcacattatg cccgacaaaa ggcttgacga ccaatcgac ggcttgagtg 420  
aacgactacc tccgagaatg tagagcaaac caagagacgg agcgctccng gcgnggttaa 480  
ccttaacaaa gggcaccaag gcggcg 506

<210> 27178  
<211> 245  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27178

atcgtgctat caggactcct ggctttctta cataactgcc gttgccgagg ctactagctg 60  
atctcatatc actcactcga ctagcatctg tcttttcctt cctactagat ccatatagaa 120

gaagcaggcc tgcactgcac tatatgcac gtgctcaatc gccattgtga gattacatgc 180  
ctttgcaacc accacctggt tacgagacaa tcatatctgt gctgtgagag cgngactatg 240  
agccc 245

<210> 27179  
<211> 456  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27179

tgaaacctcc tcatcatctt catctatcat ggactctttt attttccttc taaaagggtt 60  
ggcaccctccc taatcatgtg aagttccttt ggccgaagaa gggtttcact gcaattttct 120  
tcacatgtaa tcctgtaggc ccagtagaac taaataatat ttttaagcttg gcaggtctag 180  
tatgtgttat atacataata ataataatat ataataaaaa cttgcatggt acccattata 240  
tgtagctctg tgaattgcga ttgtgtgttt ctatatcagt gtagccatct tgttggtact 300  
taaataattat tactcttatn gaaaactgtg acatanntaa aatnngatga agctctcttc 360  
taaattgtag ttaagagggt aaaaaatana annggtggtg gatacatgaa tgaatttggt 420  
tcgccattat tgtgtccctt tttatgctta tccttt 456

<210> 27180  
<211> 245  
<212> DNA  
<213> Glycine max  
  
<400> 27180

accacogtga atgaataata gatggatacc acccgagact gagagtgtac tgatatactg 60  
tgcgatgtca gagttactac acgtgtgaca agtgcgttta tctctagaat cattaactgg 120  
cgtgacatac tatctggata tgactctctt gagatgcaaa cttgagaaga ctgccatgca 180  
agcctaaatc atatctacac acagctcctc tattagctga gctgacgacc ttaagaatct 240  
tgctt 245

<210> 27181  
<211> 448  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27181

tggaagatg catcaatgga ggataagaat gatggagata nagagagagg agggagcaca 60  
aaattgaagg aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt 120  
cattcatcaa agttacaaca agtgttacac atgcatctat ttatagacta ggtagcttcc 180  
ttgagaaact ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240  
agctagagct tagctacaca cactcctctc ctaactaagc tcacgtcctt aagaatcttc 300  
cttaagaaga ttcctaaaga agctagaact tagctacaca cacctctcta atagctaagc 360  
ttaactcctt gagatgagaa gttagagctt agctacacac cccctataat agctaagctc 420  
acncccatga acaaatacat gaatatac 448

<210> 27182

<211> 301

<212> DNA

<213> Glycine max

<400> 27182

atggtggatc ttgccggcgc ctgaaccatg cgttagggtga gagctgatag atactctaca 60  
tgccggaggg atggccatac ctgccaagta tcattccact agacggatat cgagccaacc 120  
tacctgtata gctacgtgcg ctcttgcatc ctctcacatt gatcttacat gaaatttctt 180  
acagttctcc tatcagcact cagtgtttgt ctgctatcat ataaggatgt ggcacaatgg 240  
accttactga acctccttgc tttccttggt tgtagatgtc cagcaaatat gcgactatac 300  
t 301

<210> 27183

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27183

agaacatgat gcccaaaagc acgtcgggta tattaccttn taatgcttcc catctaaggc 60  
caagttccat ggtggaccgt gccttcgacg gcacccgccg ggaggtgagg ggggagatcg 120

acctcccagt acagataggg cctcacacct gccagggttac attccaagtg atggatatca 180  
agccgaccta caactatctt ttggggcgtc catggatcca ctcaagtggga taatacagcc 240  
aattacgctc tgcttttctt catggacggg ttcttttggct acaatcagat aaagatggcg 300  
ccagaggata tggaaaagac caccttcgtc accctgtggg ggatgttctg ctataaagtg 360  
atgtcgtttg ggctcaagaa cgccggggca acctatcagc gggctatgat ggctgagntc 420  
cacgacatga tgcaccgaga aatcgaagtc tatgt 455

<210> 27184  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 27184  
gacatgtcat aatgactagc ttattaacat ggcatagttc gatatcttat gagtcgacat 60  
gggaaaactg cgaatcgatg aacgagcatg accattgtac atcctgttta ttagtaaaga 120  
tacattataa cactcattcc atatgacagg ttagatgggg atcacagcat tgggactgat 180  
acagagcaag tgcattgggat gtaatgtat 209

<210> 27185  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27185

ntntatgtcc tgttcattnt ctagctnttc ttttctattg ctaaattgtca attgaaatgc 60  
tttctaacat ggaattgatc attatcatag gagtcaagtt gggaaaattg tgaatagagg 120  
aacaataatt ggcaaagtag aacctgttta tttctagagt ttctttcaaa cacttaatta 180  
aaattccgtg tttgatggaa ttcacagag tgggaatgaa gtgaggaaat gttagggatg 240  
taaagtcatt tacaagcctc cacatgatag attaagcttt tgggaaaatt ggtgcttgac 300  
atggtattag agtgtttcca tcttatatgg cctcatcctg gtactattcc actgctaagt 360  
ccccataaaa tcttgaactt ctctcacatg gtatcacaac ctatataatc aagtggcgt 419

<210> 27186  
<211> 328

<212> DNA  
<213> Glycine max

<400> 27186

agctttgtag tttaatcttt ccttgaagta gctacggtct tttctagtat ctttctgac 60  
tccctatttg aaactctaac tcacccattt gtttgtggat gatagggtgg tgctactttg 120  
tgtcgaatat cgtagtgttg gaggaccttt gaaagtcttg gcactctaaa cctagcaaag 180  
atgcttctct ttaaggactt aatcattatt tttgcatcat tagttgcact agcaattgct 240  
tccagccact tgttcgcttc cggcaagtgc accagatcgc acaagtagta taaaacggga 300  
agaattgagt atcgaactct tgggtaac 328

<210> 27187  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27187

tgagggggaa gatgtttggg tgaagataac ttcaccctcc tcccttttaa tcattttcgt 60  
gcagagggtg ctcgcccacg cgagctaact ttgcattaat tatttttttt tttaaaaaaa 120  
acttctttgc aaacttaact atcctacggg tttgcgcttg tgttttttaa ctctaagtt 180  
tgtgaacaaa ctaagcccat tcaactatga cttttagaca aatagatgaa tataaacaag 240  
tacaaactta aaaggtactt gactgnctcc tagtagcgt tctttaacga cttgagggtgc 300  
atgcggaacg atgatctgtt gatcatgggc ctacacctgc tcgacttagc cctaagccaa 360  
aattgacata ccgctttaa tatgacta 388

<210> 27188  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 27188

agtttcttat tcaatgctca tcttgggtgg gaagctcctt cttccatggc ttattcctta 60  
atggatggcg cctcctctca cctcttttcc tttgacttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggatccc attgaagctc acagatcaag cttcataga agccccacaa 180

gcaagctttc atcaagtggc aatcagtgc caagagcttc aagtaggtgc tccttaaacc 240  
 tccattaatt gtttttcttt accttctctt ccatagttgt ttcttcattt ttctccatgt 300  
 atctcctcac atgtcttgtc ctagatgtcg ttaacatgat tcttttagatg ttccaccgga 360  
 taaacttgct atagaagcta gatttgattt tctatggctc aaat 404

<210> 27189  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 27189

atgcagaggc ttttcaagaa agaaaacaag aaattgcaac cactactaga ggtaatgttt 60  
 caatcaacct tataatataa ttatatggat tttagtggtc tcgtctattg ttgttagcat 120  
 ttctaagttg ttaacatttt atgtaaggaa agccatattg tagcaaagag taaagtatat 180  
 ttagcttgaa agaaatttct atatttatatg cttgtgatgc atgctcttag taagattact 240  
 ttcatgataa atcctcctac attcgatata agaaattata gacaagagta gttttgacct 300  
 ctctgactta gtgctttgac tgacctcttt gcatttgtcc actcaa 346

<210> 27190  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 27190

caacatggaa agattgacag taatgactag atcaaagagc aagaaagtcc cacacaatct 60  
 gcgactcacg agggagcaaa agccagcaat tcggggaaca accacacaag agagcaccgg 120  
 ggagaggggtg cccaatacct cccaaaacgg aaaatagcac acccaaaagg ggtacacacg 180  
 ataacctagg agcggttaaca aaacaaacgg caacaaaggc cactaaggga 230

<210> 27191  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27191

tcaagcttgt caaggagacg aggtgaatag cagaaggaaa ttttttatat atcattttac 60



gncanccaaa tgaaaggtct gtgggtagaa aggattgagg ttgaggctgc tcccacgtat 120  
gatatctaaa atggactatc ataacatatt cctgtgtcag agctacttat gtaaaggatt 180  
attttacaaa actcaaatgg taaaaacaac attcagggggg caaatagaca aagctgatac 240  
aactggtatc cacaaataga agaatccaca caacagtaca cagagacgca gagagagaaa 300  
aaggaaccag ctattatcta ttgattactg aaaatagtgt ctcagcactc tcctctacaa 360  
tgagtttcct cataaaatac ctctgcaata tctactgcac cactatttat aataattaac 420  
tcctagctcc ct 432

<210> 27192  
<211> 494  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27192

ccgcgcctga attgagactt tagaaccttg agacctctag nanactcaag ctggcnccaa 60  
aggagtactc accagaacca tttaagcatt ccctcgtgta gcncacaggc aaacacatgg 120  
gagtggaaag ttcaatggaa gagacacctt tttgaccacg aagttgagat ggcagcagcc 180  
tttatggcag acattgctga gtttcaaaat caacctgcaa gcagggacct tctgctttgg 240  
gggcctgatc ctgtggaacc tactcccaaa ggcagcatat aactgctaga aggacgggga 300  
cagccatgtt actgaagata gtgactgcaa gacaatctgg aaactctaaa ttccacctac 360  
agcaagtgct tttttttgga gaatattcaa gaaccgaatc cctccaagt taacttatgg 420  
acgacacatg tggagctgcc ttectataat tgcccgtgt gtgatgaaga tgaggaaaca 480  
tatagtcatg tccc 494

<210> 27193  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 27193

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gtggtcagca gaggagcaca aaccacaaac ccttgtgaca agtacagatt tctgaatcaa 120

ggccagctgg gttaccaagt tgaccaatgc atccagtttg ccttcaagct tcttagtttc 180  
 agatgatgca aatggggttg tagctacctc atgcactcct ctaatgacta tggcatcatt 240  
 tctggcacta aactgctggg agttggaggc catcttctca attaaatttc tggcttcagc 300  
 aagagtcatg tctccaaggc ttcaccactg gcagcatcta tatacttctc tccatattac 360  
 tgaatccttc ataaaaatat tggagaagaa gctgt 395

<210> 27194  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27194

ntaagagcaa ttcctttctt tnncttatta ttctcattat gttgatncaa nncattagt 60  
 tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatggt agatagatct 120  
 catgattcaa taatggttgt taccttgggt tgtcattccc tacttaagca tctcaaaact 180  
 ttattgataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240  
 tgtgtgaatc tcttttgcac gtctgtttg ctttcatttg gattcattct aaataattca 300  
 tattcatgag ttaatgtatt taccctagat ctttttacat ttgttgtagc ttcattgtgt 360  
 acttgctggg tatccacat atcttgtaca cttttacaat gtgataccct aaagtgtta 420  
 ttcattccta aaaca 435

<210> 27195  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27195

agtttaagga ggagtatggt tagtaacaca taattttaca tattttgatt ggtgggaggg 60  
 gttcgaattg gtctctatat taacagttct gtattttctt gtaggaattg agccctggac 120  
 ttttactcag aagttaggag atgctgtttt cattccagct ggttgctctc accaagtcag 180  
 aaatctgaag gtaaagtga caccctggt gaatttggtt catatttatt gtaggcacaa 240  
 tatattgttt tcttagaagt gtaggcataa tagtatcttt ggctactacc tgaaattaag 300

cctatgtcct tcattagcaa agcaagcctt tgtagaaagt gaaaactggt gattcatcta 360  
naagtttcag ttcacttggt tattnnttaa cacatttga 399

<210> 27196  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 27196

ttggaagaaa aaaattatgc tgagaaggaa tctaactagt ggtttctcat tggtgattac 60  
ttctacaaaa agtcactaa atgggagcct catgtcacia cctacctcat gacgggacga 120  
caacagcaaa atagataagc caaagtgttc gtctcctagg gagaaaacgc gtggagtcgc 180  
caccaatggt tattcgagga aaatgttaga aaaacgaaaa agaggtctgc aaatttcgaa 240  
aagaagggtt catgagtttt ttacgcatga ggaaggtatt agcaccacacg caccgctcac 300  
aagggacggc agcctttaat caagtgtgca caacgtgact tcaaaattat ttatttttcc 360  
cttttatatt tctttatttt tttgggctcg acaagggggt gcccttgctc ctacatatcc 420  
tcaggtgcga ggaggaattc ag 442

<210> 27197  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 27197

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atgatatcca ctgcacatgg tttgaagtac aggagacctt caatcctata atgctacatg 120  
gcggaacaaa gtgggcagtt aacttgaatg gccattattg tcaatgcgga aggtattctg 180  
cgcttcacta tccatgttca cacattattg caacttggtg atatgtgagc atgaactact 240  
accaatatat agatgttggt acacgaatga gcacatctta aaagcatact acgcacaatg 300  
gtggcctctt gcgaatgaag cgacaattcc tccttctgat gaggcattga cactaat 357

<210> 27198  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 27198

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 tgatgtcggt cagtatctca aaaaagccta cgatgatttg gaagaaccct tgacctgttt 120  
 tctcaaatct tccaaagttg attggcattt ctatgaccca tatatgttac agttaccaaa 180  
 aaggttcaaa gagaaaacca aatgggtgtgg aatagtaagc cccgggtggg caccatagtt 240  
 gaaggatttg agccacaagg cagttggtgg ggttttgact cactctggtt ggacctctgt 300  
 ggtggaggtt gtttagaatg aaaaacctct agttttgtta atgtttcttg cagaccacgg 360  
 attgaactcc aggggtgttg aagtgaagaa gatgggggtat tcaattccta aggatgaaca 420  
 agatggatc 429

<210> 27199  
 <211> 84  
 <212> DNA  
 <213> Glycine max

<400> 27199  
 agcttgtgat gcttaaggaa gaaactttat atagctgctc gtgcctccaa atagaatatt 60  
 cataactaaa atagcaaggg cgag 84

<210> 27200  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27200

agcttgtttg cacgaattta atttaataac ttacttttta caaattatth taagtatctt 60  
 gtgaaaataa gttacttaaa ataaattata tgttataagt tttttttcaa tttcattggt 120  
 cactaatcta tttgaaactt cattttcttc ttttacttaa ttttaaaaaa aaattattat 180  
 ttcaacattc ttacaaacac tttgaattaa tcttttatgt catttgatat ttatcactta 240  
 acttatcaat taatcttact aaatactttt aattaaataa gttagtttat aaacttctag 300  
 ctattcaact cctaagttat agcttataat aggggtgttc gtgagccagt tccggaccag 360  
 ttttgaccaa atttangatc taacctaatc acaattgatc 400

<210> 27201  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 27201

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ctcaagctta tgacctttgt cacttgagag ccaaagaaaa accattcaat ttgtgtgata 60
taaataaatc ttgcgatatt caatcatcac tatcataatt ttgcacgaat gtaacacaat 120
ttggtggcat tctaaaactg ttgagactat ctagcaattt cacccaagat tatgacattt 180
tagtataata tataatgtca cacctatcta gcaatttcac ccatactggt gaaacttttc 240
tatactccca ttctttcttt tttagtggat agttaaactt ttctttatcc catcacatat 300
aattccttct ctcttattga aggttgtcca cacattggta tacttagtca tcttttcttt 360
cattctacat accttcttta tgataggcta taagatcttg ctagtctttc ttttttctg 420
ctcttatc 428
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<210> 27202  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 27202

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agcttcagac tgctcaattg ctcttttttg ctgcatggaa tggcaaaggt ctgtatgggtg 60
gtcaacatat gatcacaaac cacataccct tgcgacaggt acagatttct gattcaaggc 120
caactgggtt accaagttga ccaacgcac cagtttgcc tcaagcttct taatttcaga 180
tgatgcagat gggttttag ctacctcatg cactcctcta atgattatgg catcatttct 240
ggcgctaaac tgctgggagt tggaggccat cttcttaatt aaatttctgg cttcagcagg 300
agtcatgtct tcaaaggctt caccactggc agcatctatc atacttctct ccatattact 360
gagtccttta ttaaaatatt 380
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<210> 27203  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27203

tgaaggtgcg taccacacca ttntttcata gcaaattatt gattatgtgt ttactatcat 60  
agctatcatt tctttctccg tcattgaggg aaccacttgg gctgccaaat ccctccacct 120  
ttgggcgtat tctttgaaag atccatgcc cctcttgc atgctctgta gttgcatcct 180  
atccggagcc atatcagaat tgtactaata ctgcctaacg aagtcaacca ttacgtcctt 240  
ccaagaatgg actcgggaag gttccaagtt aatgtaccag gtaacagcta cccagtaag 300  
actttcttgg aagaaatgta tcaccagttc ctcatctttt gtgtatgccc acatcttccg 360  
acaatacatc tttagatggg tcttggggca agtagctccc ttgtacttat caaagtctgg 420  
caccttgaac ttgtgatggg t 441

<210> 27204  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 27204

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ggtcaccata ggagcacaaa ccacaaacct ttgtgacagg tacagatttc tgattcaagg 120  
ccagctgggt taccaagttg accaatgcat ccacgttgcc ttcaagcttt ttaatttcag 180  
atgatgcaca tgggtttgta gcttcctcat gcactcctct aatgactatg gcatcatttc 240  
tggcactaaa ctgctgggag taggaggcca tcttctaatt atatttctgg ctgagcacga 300  
gtcatgtctc caatggctcc accactggca gcatctatca tacttctctc catattactg 360  
agtccttcat aaaaatat 378

<210> 27205  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27205

ntaagagcaa ttcctttctt tntcttatca ttctccttat gtatattcaa tctcattagt 60  
tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatgtt agatagatct 120  
catgattcaa taatggttgt taccttgggt tgtcattccc tacttaagca tctcaaaact 180

ttattgataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240  
 tgtgtgaatc tcttttgcac gtctgtttg ctttcattag gattcattct aaataattca 300  
 tattcatgag ttaatgtatt tatcctagat ctttctacat ttgttgtacc ttcattgtgt 360  
 acttgtcggg tatcccatat atcttttaca cttttacaat ttgataccct acagtgtcta 420  
 ttcattccta aaacagatgt aat 443

<210> 27206  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 27206

agcttcaaca ttcaacttcg agcttctcgt tatattatag gactcaatta gacatccgag 60  
 taaaaagtta ttgtcgtttg aatttgcctc gagcttcaac attcaatttc gagcgtctcc 120  
 atatattacg ggactcaatc agacatccga gtaaaacgtt attgttgttt gaatttgctc 180  
 aaagcttcaa cattcaattt cgagcgtcta gatattatc aggactcaat caaacatccg 240  
 agtaaaatgt tactgtcgtt taaatttgcct tagctctcca gctttaaatt tcgagcgtct 300  
 cgatatatga cgggactata tcagacatcc gagtaaaaag ttattgtcat ttgaatttgc 360  
 ttagagattc aacattcatc ttcgagtgtc tcgttatatt acggga 406

<210> 27207  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27207

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 cgtaatatat cgagacgctc gaaattgaat gttgaagctc tgagccaatt cacacgacaa 120  
 taacttttta ctcgatgat tgattgagtc ccgtaatat acaagacgct caaaattgaa 180  
 tgttgaagct atgagccaat tcaaatgaca ataacttttt actcgatgt ctgattgagt 240  
 cccgaaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac 300  
 aataactttt tactcgatg tctgattgag tcccgtata tatcgagacg ctcgaaattg 360  
 aatgttgaag ctttaggcaa attcaaacga caataactnt ttactcgat gtctgattga 420

gtccccgtaat atatcaagac gctcgaaatt g

451

<210> 27208

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27208

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attctttaca ctgcattcta agcaccacg ggtttgagta aaaaaggggc cctatacccg 120  
ggttcatggg aatttaagga gtggagggtga atctatcatc atgctangtc tccgacttgc 180  
ttgataatag tgaaacctcg tctagagctt tctctcttta taatgtgttg tcgctggtat 240  
tccataccgc cacaatatta ttatcttgag tgatgatacc tctagaaaac agccgtgtga 300  
gtcatgaatt gttggggagt agttattaga gaccctaga tattatccta ggttcccaca 360  
taggggcaaa gagcagacac gtcctgtgcc attcgttctc a 401

<210> 27209

<211> 419

<212> DNA

<213> Glycine max

<400> 27209

tcgaagaggt gaaaggaata atcacgggtt taggcttgat cttgaaggac gagctaaagg 60  
cttgccctta gtcgaaaaga aatttgtccc aacagttaag cgagactgaa gggaatatgt 120  
gggccatcat cgatgagtgc aaagagaagc taaatctagc agcgactcac gagcaaaggc 180  
tagaggatga gtacgccaag atatcagtag aaagggaagc aagggaagg gtaattgatt 240  
cattgcacca agaggcaaca atgtggatgg accaatttgc tcttactttg aacaagagtc 300  
aagaacttcc ccgattgcta gccaaaggcca aagcaatggc ggacaccaac tccgcccccg 360  
aggagatcca cggacttctc agctattgtc agcatatgat agacttaatg gaccatatg 419

<210> 27210

<211> 236

<212> DNA

<213> Glycine max



<400> 27210

tcatacttga caaaaagact ttattgtacc cttcgattga ctgtacaaac tcaagtaaac 60  
cttgtgacac ttgtcatatt gcataacata agtggctacc ttttcctgat agcctgatcg 120  
accactctta aagatctgat ttgctgcaca tggatatatg aagtccttat gtcatactt 180  
cattacttgg tcataaatat tttcgtacta ttgacgatga caaatgcata tataca 236

<210> 27211

<211> 339

<212> DNA

<213> Glycine max

<400> 27211

tgggtcaaaa gcatactccc gttgaccccg agccagagct catgattacc atgaactcta 60  
tgcagttata ggtagagcaa tgaaataata agatatatca aataagattc ctctatcaat 120  
gtctataatg gacaaatatg attcctaattg ggcacgactg gcaatatttc ttttttggac 180  
tccgacttat tatatTTTTT aatcacatta ttcaagttcc cacacctcta acatttgatt 240  
acatggtaga atcagcgaac taattgcaca ataatgaggt atactgttgc taatattaag 300  
ctcatttgct tcttctccaa agttaaaata tatcgcata 339

<210> 27212

<211> 337

<212> DNA

<213> Glycine max

<400> 27212

agcttctact acttgaggtg tcttgcaatt tagactacct tggaatactt ctagttctgc 60  
tcggcttata gaaatcaaaa cggacactat ttcaggcttg taattgatgt gcattatggt 120  
ccttcacttg tctatttcaa gtgagcccct aataaggatt ggtgattcca agctaggggtg 180  
aatttctagg tttatgatgc ttaaataagt gtgttctatt tgattctgta tgtgttatat 240  
gtctagctag acttgggtaa cgcaagggtt gtatcaagga tccttgatcg tacttctatt 300  
actattactc tatactgaag agacaacaaa gaagtaa 337

<210> 27213

<211> 426

<212> DNA

<213> Glycine max

<400> 27213

tgttgagaga tcgtcggttg gtcggccact tccacattgt tgtgagaggg agatttggtg 60  
ggctcccttc ctatgtggag taaagacctc atttgtctca cttatttaag tggagaaggg 120  
tcagattaga gagacataca cagagagtga ctcatctgag aaggaaacag ttagaaatca 180  
ttgagagaga aatgagaggg agaacattgt gattttcgca taccactag agaacatttt 240  
tcagattgca acttcagatt cgtccatcgt tggatcagat tgatttatgg acagcaggtt 300  
ctacgcacat gatacttcaa attatccggt tggatcgtga aaacgatatc aagagagaga 360  
gagataagtg tctcatattc tctactctat attatgggat cttatcttat ctctattgta 420  
ccaatt 426

<210> 27214

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27214

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gaccaatatt cctctaccac tattctacaa tcatcatggt ctaaccacaa gctcatgaac 120  
caaaaatggg aagcaagaga tttttgccac tgcaacaaat taagcagaag agggatgatga 180  
tctgattata ccttggttaga gaagaacaag ctatagaatc tcaataggat agggattcct 240  
tattacatat ggttctatct aatctcatgt taatatgggc tctacctcta cgcccatttg 300  
accaaatggt accctttgta ggcaaagtag tgagcaggta gtgatcagac caagcccata 360  
actcattaca tgaagctngc aacgacagtt ctccccctc 399

<210> 27215

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27215

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agtctactgc gcttagcgca tgagtaaaat ttcataaggc gcactaagct cagcctgctg 120  
 cggtaaagcat ccaatcaaaa attcagtttt atttttatgt ttttgtggaa ataacctgtg 180  
 ttaatctctt gtgttttgtc ttatatTTTA cagatggcat ctaagaaaag gaaggctcct 240  
 tctacaccta cccaggccag atatgacaga tccaggttca catctcaaaa agcttgggag 300  
 aggtatacag acattgtggg gcctagaaaa ctactaccga agaggaatat gatattttat 360  
 gacactgagt tcgacgagtt caaggaggaa ctcgacagaa ggcactgnga tgaggagttg 420  
 atttatnta atgata 436

<210> 27216  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 27216  
 agcttctagc caaatggact taccttgaat taatcccttt gatagccctt ttgagccttg 60  
 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
 atatccttaa ggaatTTTtg agctttggaa ttgttttggg aataagtgtg gggggTTTTt 180  
 gtttcattgg acaacttgtt ttgttggcta tgcttcatga tgcatttttg gccatacttg 240  
 atgtacattg tatattgggt aaatgttggg catgctgaat gaaatgttgt ttctcaaagt 300  
 ctaaaaaaaaa aaaaaaaca aaatattcga aaaaaaattc ggacagacaa aaagaaaaca 360  
 aaaagcaata aagttga 377

<210> 27217  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27217

atggaggaag agaatgagag agagagaaag aaagtggcgt gggaatgaag gaaagagagg 60  
 gagagaagtt taactttgaa gtgtgtctca caggactcta actcatcaaa gttatcacia 120  
 gtattacaca tgcttctatt tatagcctaa gcagcttcct tgagaagcta gtgttacacc 180  
 cttccaatag ctaagctcac cctcatgcc aatacatca aggaagaaag cttgcatgag 240  
 aggcttcctt ggggaggaag tgttacaccc ctccaatagc aaagctcacc ccatgggaac 300

acacacccct ccaatagcta agctcaccgc cctccacaat acaaaanaaa agaccctact 360  
 acaaagacta ctc 373

<210> 27218  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 27218  
 agctttatct ccacggcata gaatgattgc acttcatgct ttcacatcat ctctgatttc 60  
 tcctttgagc tttaaagaatc agacatcttt tcttctcctt taagagcttc tgcacagcca 120  
 tgttgaatca agatttcttc catcttgatt ctccataacc cgaagtcatt ttccccctga 180  
 agactttctct atactatact gttgggtgttc ccatctttct tgatcttgat cctttttttt 240  
 cccacagac tgcaccactt gttgggttctt tgtaaaagt ctgcaactc 289

<210> 27219  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 27219  
 gccaggtgga cacacttttg tttacaggtg aagcgacgtt tgacagaaag atgttgattt 60  
 gacaattctg ccctatttga ccattggaaa cacattgaag catgtgtttc atttttcttt 120  
 gttgcagtga gtgcacacaa gcacgctact cttgcatatg tgtacccgta gagtggacac 180  
 atactgagac gcgggtgctg attagtgggg tgattgggtg caacttcaag catcatttca 240  
 ctctgcacta ccgaaagttg gcctccttaa ttaatgacgt tgattttata caccttgatt 300  
 ctacttcttt tctgacttc 319

<210> 27220  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27220  
 agcttatttg tgataaaatt gaagtttatt ttcttatctt tccagggact actcacacac 60  
 tccattttta gttctatagt gttctatagg ccctgcacaa ggcagatagg tcaagtaagc 120

acaaaaatcc gaaaataagc cataattatc aattaaactc aatcatttgc ctaagatcaa 180  
aactaagtta aagtgagaaa ataaggggtca aagagggtcc aattgagcta agaagaatag 240  
aaaaatacta aactacaaat gctcaatcat cataacacaa gtaatagggg tctaattaga 300  
agtcgtacaa tgctgtgaaa caccgccgact atggggttgta ctagcagcct ggctagcttg 360  
agtgacctat ggtagtcgtc ctccatgttg gtctcgtcga t 401

<210> 27221  
<211> 446  
<212> DNA  
<213> Glycine max

<400> 27221

tcttgatag gattcttgat gctcgatctt gatgtcttgt atcaatttct tgggcttttg 60  
gcatcatcaa aattgcctgg ttcacatca tgaagcttgc ttctacaatc tctccctttt 120  
ttatgatgac aaacctaata tcaagaaaca catacagact ctatcttcta atcgatcact 180  
cacttaattc cccccctttg ttttttgagt ttaaacttca cttgaagtta agttatttaa 240  
ttatatgagt tcttgattca gtcccaatgt tttctcccc tttggcatca acaaaaagcc 300  
aaagtgcgta tagagacatt aaatcataca caaactcata atcatccaag cattgtaatc 360  
catacaacaa gcaaggagga caataattca tacataaact aagccaggaa gataataatt 420  
catccattaa ctataatata atgtca 446

<210> 27222  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27222

agcttgctcg taccatgaac gttgcactgc taggcacact aatatgaagc cttttgcatg 60  
agatggacaa accttctagg ttttgtccta taaatatcta caagtgaatg gtattcttaa 120  
tgttactcac tccatagatg attcatatat gtagcaaaga attttgaacg ctattcaggt 180  
cctccatgat ggcttcaagc caaggctagg ggctgactag tcttctttat ggttttcaga 240  
ttgggtagca catggtcctc tttgccatca gtttcttatg tccatatgaa tgactcacac 300

ttaaagggtga ttgatcgatc tgtgtcccan acccaatgga gtatgggact tgaacgaact 360  
 taatgttcct cttcccatag atatataaga ttatatcaag agcc 404

<210> 27223  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 27223

tatagctcta gcagccaggt tgtaaagatg atatctcttc ctcttgcat aattgtcact 60  
 caagatgcta gccagtggat cctcctgag attggtcaag ttgatgtcag ttgtgatgct 120  
 tcagttcctt aattggggag tctcacaact tatgggtgggg tgcttcatga ttatacatga 180  
 aattttctgt gtggactcaa atccaatatt ggagattcat ctgtgctgaa tgtacaattg 240  
 ttgactattc taatgaatct tgcctatgaa attctatttc cttttaggaa tggatcatgg 300  
 aatagtggga aaagaactat tacattactt ctattgtagg ggctaataat gggagctcta 360  
 tcatggtgat gtcaaaaggt ttgttttata aaagtgaact acttttggaa tctgatcttt 420  
 attgctgaga tattactttt atac 444

<210> 27224  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27224

agcttatccg tttacaatt gcaggtcatg gagcaacaaa cttcctcagc cagtatgggt 60  
 ctcaatcaat gtgccattcc tttgtttggc tncgtcaatg atttctcaa atccttcggc 120  
 accgatttgt cttatctggt ggtngatcca ctgcacgcc agaaagaggc gaagggtgccg 180  
 ccgtagaact gggtcatgac gtgcagcagc gcgtggggct cgcgtgttca aatgctggtg 240  
 cgggataatg gtcaacttca caggatgagg gagcgggtca taaatgctga agagcccga 300  
 aagatttgag tgagtgttat attcgtgctt ttacttgact tag 343

<210> 27225  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 27225

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tgccttccct cataattaan atcataaatt tcaatcttca tctttacacc tttaaacctc   60
actgacccat gacctaagcc tcatcgacct gtgctctaata gtattccttc actcaaactc  120
tgcaaaaaac cataaaattc ttaaaccttc aagcgccctc ataaatccct tcatgacaca  180
aatttgatgg atactaaatg atttaccat tgataacaat tgataagaac ctgagacatt  240
gtgtttcaat gtatgccttt tgtgcaccca cataaacccc aagtgtctta tcagttggta  300
tatagctttt caccatgcct caggctctca gctacaagtg aacagcatgg ttggtgatgc  360
ctggcattat attatntget taggaccagt caaagtgcta gtgcatgacc aacttgcata  420
tatgttgggg ctgtggagtg tg                                           442

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<210> 27226  
<211> 328  
<212> DNA  
<213> Glycine max

```

<400> 27226
agtttgacat tttattagaa gaggccatct tgcatttcaa catctttgta atgtttgaat   60
cggcgtaata gaacctaaga ttagataat aaccgcactt atgcaaaggg tggtaaagtt  120
ggctatccca tctgtgatga atgatggcaa aagatattct tatacttctc tttattatca  180
ttgaaagctc tatgaatggt ctcttggcc ctatccattg cctgataaat gaaactcatt  240
gtatgttcat tttttttcgt gatccaccaa cctcattacc cttacaagag gcccatagt  300
ctttaaagtg aaggccacat caaactgg                                           328

```

<210> 27227  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27227

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tctaatagta tatcaaaaga gagaaatggt agcaactttc tcttttaaca ctttnttgaa   60
cacactttct agtttctact atgaaattta ttgaaaatca caaaattttt gcaggtctta  120
cttctcattt aatgattctc tctcctgatt ttatggtttc caatagattt caaccaatag  180

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tgaagtgtta caaagattaa cctaaccttt cttgctttct cagcatacat caagaagagg 240  
 attatgtaca caagctgaaa ggctgctcca atagaattaa cagttgtcac caagagatta 300  
 tcaggtgata taaggagtgt gccataccac aagcagatca tgcagttcaa gagagaataa 360  
 atatatggca acccggagaa catatctgtt gaccatttc ggatgattct cctaaatgtc 420  
 ggtctacaaa tcaaaacaga ac 442

<210> 27228  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 27228

agcttgtgat tataaaggca aattttcact gtgatttttt ctctctgttt cttcttctgg 60  
 ccatgaaact tctctttgtc acttggtgaa tgagccccac ttaaaaagtt tgaattttga 120  
 ggagaattat ctttctgggt gtttttcacg agagcaagat cttgaagtgc ttgggggtta 180  
 tgtggaatcc tctgtcttgg gttatggacg ctgctgctat aatggcaatt gcacttgccc 240  
 ttggaggg 248

<210> 27229  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27229

cttgcttgaa gcatatcgca aaaatgggag aaaattacat atatttttgc aaccatttaa 60  
 ggagaaatta aacaatgcac atatataac ctgatgacat gtgtattgaa ctcagcggta 120  
 actttcatgg ggttcggctt gtaagcttgt tttgcggctt ctcttgcttc ttttaatcgc 180  
 ctatgccaga catgatcgaa gtgacctatg ttagcgtaa gggtagggaa tatagcaaga 240  
 caaattacgt aaaagaatag caaactgaac ttgctagttt ccatgactat tgtttctttc 300  
 tcttgaagat ctttaatcgt gtgcgcctta tgttgtttat tgtgtgcttt tcaacctata 360  
 tatntattta ttttggcatt ttaagttctc ctcccgtact ttgcgctaga cccacatata 420  
 aatggcacta cgatac 436



<210> 27230  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 27230

agttttataa agtccttctg attctattta tacatttttt ttactttatg gcatgagatg 60  
 aagtacatag attggagctt ttgcaaattt ttattaatga atagcttaaa cactgtggat 120  
 taagctactt tccttgatat ttgtattatg cctaactaca tctaattgta cacgctacat 180  
 tatattcttc tctttggata actgcatgcc ttgtataaga caagtgaaga gggcattttt 240  
 gtttcattct cttatgatgc aatcattaac tttctgtgca tacacctttt gtacatagtc 300  
 acagcatggt attgtcactt gaggaccagt gaactgttct ttatttgctt aatgacacgc 360  
 ataactgtac attcgggtga gttgcgatcg ataaatac 398

<210> 27231  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 27231

aactcccgct cggcattaat tgctccaaag ctgtttaaat gatacgtgtc gcaggcggca 60  
 ccagaggagc atataccaca gagtcttgct acaggtacat atttttgatt catggctagt 120  
 taggatacca ggttaaccaa ggcgtctagt ttaacttcaa gcttcttaaa ctcatgatg 180  
 gcagatgagt ttgtggctac ctcatgcact cctctaataga ctatagcctc atttatggcg 240  
 ctaaactggt gggagtccga agccatcatc tcatatatat tcctggcttc agcatggggtc 300  
 atgtctccac ggctccacc tgctcagatct atcatacttc tttcatgtac tgagccttgt 360  
 aaaat 365

<210> 27232  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27232

agcttggtac aactagtatt ctttgtccta tcacaaatta gaagatttgt tggtttgatt 60

ttgcacaatg actaacacac tattgtttta caaatgaata accaatttct acaattagtt 120  
 tttttctttc aagataaaaa agtgttttga gagcttttct aaactttaca agaatttaag 180  
 catagtgett tttacagaaa aaatttgaac aatttagcgct tcaaaaacta tatcatgtgc 240  
 tcaaagcttg atatttatag gcctccttga atcaagtaat tgtgttctct aaaaggacat 300  
 atttcctctc ttaagcttac atctaaagaa tgtgactatt gnggcattaa atgcacacat 360  
 ttcttgaagc tgagaaacca ttcttcattg ctagcggtg 398

<210> 27233  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27233

tgtaggatta tggngtatcc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60  
 aacaagtttt ccacatccac aaatcgcgca taaatccacc atccccgtt gccacctcc 120  
 aactgagttc acgtactccc acatcctcgt ttctctcaac atcggggtccc caaaaatcct 180  
 cccaagcttc cccaacatcc aggtaattca acatccaaat catcacaac taacaaacca 240  
 agcaaaacag ggcaaaggct gaaaactctg tccaaaactc aaaccaaaat tatagctttt 300  
 tctcacttaa agaccccagt aacatttcct tcgttccaat tcgctaaccg ttggatcgac 360  
 tcgaannatt tactggaagt ctctagtaca taagcctaca ttntgaccgt tgggatctgc 420  
 tagcaaacat ccaaaaactca ttc 443

<210> 27234  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27234

cccgcgatta cnactangac ttacgaacnc ngagacacta cannaaactc ccgctggcct 60  
 cactacttgg cggacaacgc gcaaatctca tttatactc tacagncgga ccacaacaaa 120  
 gatcccttgc actgctcttt tcacatcttc ggtcgaacga gtcatatata tcgggtacga 180  
 tagcgatcaa tctgactgtt cttgcgggtc tagaaacgcg acaaagcgt cgatcagcct 240

ctaggaccac ccacccatcc acatttggac agagaactcc tccgaagatc aaaagtgcta 300  
 cgatgcctat gaacggggcc catttacctc tacctatcaa gatacgtgct tgtgtctaca 360  
 aacaatttct ctctactcc atccagecca ttctatactg gctttctgtg gcctaaactcc 420  
 tctcgcaata tttggactat cctacatact ctacctaaca aggcgataaa ccctgataag 480  
 agggatggct tcatcccg 498

<210> 27235  
 <211> 575  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27235

gggcagcgct agtcaccgcc ngacgtanga ntacgaaaac agaggcgaac acctcaaccc 60  
 ccnccccccc ccccccccc cgcgagcatg gcatcgatga catgggagac ncngagacac 120  
 cacanaaacc caagccgana gcggagcaag ccgaaccgca agcaatttgc ggattaactt 180  
 tatccacaag caacgcgcag agcaacggga tccgcaacaa acgcacggat caagtagacc 240  
 caaaaaccac acgtggagca acgagaacca cacccaacaa gcggagcaac aggggcaact 300  
 acagaacaac cgccgagcac catcgtcaac caccagacac aggagagcag aggcggacca 360  
 agcacaacga ggagggcgca caacgaacgc tccaaacaaa ccagggggca cgcaagcctc 420  
 ggcacgcaag gagaaggcg caccgagcaa cccccaccgc aaacaaagca ggaagaccgc 480  
 gcgcgaaccc aaccggcgca gaacaaagat aagcgacccc gaagcaaaag cgaaaataga 540  
 caagacgccc gcgacggcac cacacacagc acacc 575

<210> 27236  
 <211> 180  
 <212> DNA  
 <213> Glycine max  
 <400> 27236

ccgggaactc acagaaacct gcagctgcaa tcttaccatt tggactcctc ataggtgttg 60  
 catgagaata catgctctat tatgatcttc cactccaagt aagcccccg aacattcttt 120  
 cctttacaag gaagaaagct gaaggtaata ccatcaattc gggattgtct aggaacacca 180



<400> 27239

ccgcgtacac cctgcctcgg caacgtcggg cggtacgttc cccccccccc cccgcgggctg 60  
aatgagactg caacnctgca ncagngacct ataaaaactca gctctcaaga tccaccccca 120  
tataagcttg tcaagctagc tgccatcact ggggccctat cctattcgag aagacattcc 180  
tttacttgat tcacatgcac agaggacgca cgctaaggca aatttgatga aatctcgaca 240  
acatttcgca ttgggtctcca agtacacgac atgacagcgc ggacacgaat tcaccacgat 300  
caacgaagca cccgtagaac aaagcttcat gcactaaacc gagatttaat cagataaaca 360  
caacctactt aacctataag caagaattat gaataccaat aggccttccc atactgcccc 420  
acagacaatt cgagattcaa tacgatgagt aacctacact atccatattc atcggcggac 480  
taccagctca acagacgacg tatgggtcgc tcataatgca accaattcta atacacg 537

<210> 27240

<211> 378

<212> DNA

<213> Glycine max

<400> 27240

agttctggtg ggacatcttg acttgctttc caatctgaca ttcaccacag attctgcctt 60  
cttctatddd cagattggga atgcctctaa cagcaccttt gtcaatgatt ttcttcatgc 120  
ctcttaagtg cagatgtcca aatctttgat gccatatddd gacttcatct tctttggaga 180  
atagacatgt ggaggagtaa ctgggttctt gaggtgtcca taggtaacag ttgtcctttg 240  
acctgctgcc cttcattaga acttcactct tctcatttgt caccaagcat tctgactttg 300  
tgaagtttac attatatact tcatcacaca gctgactgat gctgatcaag tctgcagtca 360  
gtccttcaca gcagtact 378

<210> 27241

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27241

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aatgagggca aatttgctct gaaccaaaat ttccttttat gaatgaagct cttctacaac 120

ctaagacaag gttgaaggag ataaacgtac aggctcaagg ttcaatcaaa caatcatact 180  
 ttcagctcaa aatgggtaca agggataaat caatcatgca caaagtaagc tttttaggta 240  
 agtggctatc ttcaatcaaa acatggcctt catcgtcttc aatttcaatc attctttcca 300  
 tgcttagaga ttcattgcaa aaccattact taatgttagt cattctctca caattaaaga 360  
 tcacactctc accgggttgc agcaaattgtg ttccttcaca atcaacctga caaaccaact 420  
 aacat 425

<210> 27242  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 27242

agcttcttca ttaatatata tatatgagaa taaaatatga aggaaaaaag cttcttcaga 60  
 caactaaaat taacttatgc attaggtaaa atcagctttt tttgcaaaaa gatgattgta 120  
 acttatgtca agttaatcgc agcttatggg agaaaattta tttcatcttt tttcttttta 180  
 ttttcttctc ttattagtgc ttatggagaa acttattcta acatggctctt aatcaatgac 240  
 attacgtttg attggaagac aatattagat gtacatgatc tgattaaaac tgggcagtta 300  
 atacgatgga tggtaattgc catcagtatc ctctctctct ctcttatata tttgtgcgtg 360  
 tgagtgtttt ctagtctgga tcttgagacg cgtctact 398

<210> 27243  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27243

tcattattctt gaattgactt gaccacatct tcattgttat agttttcaat cttaaattggc 60  
 tgatacatat atgtgtgtct catttttact cactttgatc gcgcttctta acaagggtgt 120  
 tcatatgtat attttacgct ttgcagataa attttcaatt tcggctaaag cttccttcaa 180  
 tgcaataatg aggatgaggt ggataataaa caaaaaatgc aacagtaaaa ggagaacaag 240  
 gggatatatgc attgatttaa acaccttttg taacttattc attaacttan agtgagtatt 300

ttcagtttgt atgttgctac acgaatgata ggaaaagtta agcatttaga aaattttattc 360  
atgttcctat aaagacacat agctaattga gatctacaat ttattttggg gatacatttc 420  
tttatacata gcaagataca gc 442

<210> 27244  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 27244

agcttattat tattcagtga aggatgcgtc aaatcccaag attcttgaag tgtccccacc 60  
tctccgtttc tttgatcaac ttgaggcctt tacctctata taaaccactc ttaatgctca 120  
tttcccttca tctaaagctt ttagttttct atatcactct caactctgct tcttttcaat 180  
cagttacatt ttcttttgta ttccaatggc cactgttgaa gtaactctac taaaatactt 240  
gctactctac tctaactcac atgggttgctc agttcagaac ccgcaaataa attcccttat 300  
gttaattcta atttggaatc aatttctttt attttcagct tgatctcaac catatccttg 360  
cttcgtttat tttttaatca ttttttatca tcataccctt gct 403

<210> 27245  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27245

ttgaagtact acgaagcagc aaatgaagag gacctcttct aatctcatgc tncatcaaatt 60  
tagtctcagc ttcaaatttg gatacatgtg tgcaaacaga gccattgcac aagctatgag 120  
agacgaagac ataattcata taattgactt ccatattgat gaaggaagcc agtggctcac 180  
ttagattcag gattttgtag ctaggtctag ggggccactc cacatccgga ttacggctat 240  
tggtgattca acatcatctg atgcaatgca gatgggtgga aataagttat caaaacttgc 300  
tgaggaattt aagggtgctct ntgaatttga tgttgtagct atctttgctt gtgatgttca 360  
gctacaaaac cttcgagttc aatctcgggt ggctctggct gtgatatttg cattcatgct 420  
acatcagatg ccgatg 437

<210> 27246  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27246

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agctttcttca taaacgtgac atttttgcac aatacacaat gtccggtaca ccacaaccaa 60
atggtgtatc agaaaggcac aatagaactt taatggatat gattaggagt atgttaatca 120
attagactat atccgtatct ttgtggatgt atgccttgaa aactgtcatg tatttggtga 180
ataaggttcc tagtaaggca gttccaaaga catcttttga actgtggaca aataggacac 240
ctagtataag gcacttgcac gtttgggggtt gtcaggcaca aataaagatc tataatccgc 300
acgaaagaaa attggatgca agaacaatca gtggatattt cattgggttat caagaaaagt 360
caaaggagta tatgttttat tgtcctaacc atagtatgag a 401
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<210> 27247  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27247

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tctcccccaa ttntctataa ataggggggag aagtgatgtg atttatgggtt ttgtccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattgtt tccgtgaaga aaatccaagc 120
cgaggcgctt ccaaaacttt ttcgtaacgt ttccgtgagg aatttcgcga aggtttcgac 180
cgttcttcga cgttcttcat tcgttcttca tcgttcttcg atcttcaacg ggtaagtacc 240
tcgaaccaag cttttcgatt cattctatgt acctttgggtg gtccacattg tgtttcgtgt 300
atttttattc tcgtttcagt tactctttat accccctttt gacgtgctta agtcatttct 360
cgcttaacct aaaaataaaa taaatttcca ccgatcggtt gaattgtatt atccgctaac 420
ttccggtaaa atgaattccg acc 443
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<210> 27248  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27248



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 ggtgatthttc caccatggag atgcagtgga aggcaaagga gaagaggaga ggggagacac 120  
 catccactag ggaataagcc atggaagaag gagcttcacc accaagaatg tgccttgaat 180  
 cttcgagctt cacaacagtt atccagttca aaagaacaat gaatgtgcta tgactactat 240  
 gttagtaaaa agaatcaata aatcaaagaa agcaaaaata aagcaatgct gcaaaaactga 300  
 actaaactct actaacagct tagttccncg gcaacgacgc cataaatact ntgttggatt 360  
 tcccctgtgg ttactttatg ttccactntt tcttcgttca aatata 406

<210> 27249  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 27249  
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 cgtttctgga aatgcatgtc acgaatgatt tgaaaaaatt aatccattac cccatttgtt 120  
 aatcaattga atttgtcttt catattaaaa tctatatata ccctctcttg atcattctca 180  
 ttagcgaatc taatttagat cgtatctttc gaaaatactt tctgagagtc atctaaggga 240  
 accactctgc atttcagcga gagattcatg atgatcacga ttcattcatt cttcatcatg 300  
 atctgagcaa ggaaataaag gcttgaagat attgcgatat gcacatttag gtgtattctg 360  
 aaataacaac aaccacacta caatgcgggt tgaatagtgt gataatt 407

<210> 27250  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27250

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 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgagg atgatttctc 120  
 cagatttacc tgggtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgatca 240

tggcagagag tttgaaaaca gcagggtttac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacacgac 360  
 cttgcaagag gctgctangg tcatgcttca tgccaaagaa cttccctata atctctgggc 420  
 tgaagccatg aacacagcat gctacatcca 450

<210> 27251  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 27251

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 gttaaccatg cattaggtac catgttcaat tattttgttt ttaagtgaac cgggtttatg 120  
 atcccaacat gggttgctcc taacacatga aactaagaat gtagtgtaa gtttcacgct 180  
 tcccccttct ttgtttttgt tttgtagagg aaaacgcaag gatgagcaaa catgaaaaca 240  
 aatggtatgc aattttgcag atcaaaaagt ttgttgacg catatgcatg atgatgcat 300  
 gactcatgca aaatgtgagg ctggaatatg ataacggaca aatgcaogat atgtccatta 360  
 tgatgttatg aagagatgct tatgcatgac atgatatg 398

<210> 27252  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27252

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 tcttaaaaca aaaatggcat acaacctctt ctcataaata caaacatcaa tgtaaattta 120  
 gagcaagctt atgcgcatat ttccttacga acgttcactt gcacaagaca ttctttttta 180  
 ctaagaaaaa tgcacccata tacaatcaag gcagcttcgt cacctagatt atttacctgt 240  
 acttccaagg tgtatttggt acttacatca cacacatctc cttggctaaa ttacatata 300  
 tgcatactca aagcattttg gggtaacaaa aattgcacat gtgcacatct tggattttct 360  
 aatacctata catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta 420  
 catntcatgc 430

<210> 27253  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 27253

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 gagttatgtc ttttgagtag aagaagacca acatctcaat ccagcaaggt ttttgtggaa 120  
 agattggtca ggttgtatct ctgctacttg gttttttcat gtgtatgttc ttttacacgg 180  
 tcttgtgttt atgtgtgaat tgcttaccgc atgctagaat aggattttat agtttaggct 240  
 aagagtagcg ttttcttagg cttatattca tagagggttc tagtgttgga tgccttagtc 300  
 tctttttcca ggctgggaat tgtagattga tctgattgc ttgtaagaat tcttgatgca 360  
 cagtggaaat ctaatttatg ttatggatta cataact 397

<210> 27254  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27254

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 caatatgtgg tttaaaagat acagacaatg ttacaatgca attaactctgg tgattgagtt 120  
 ggttatgaca ctttcttttt aaccttaatt gaagtttgat agtggtacta agaaagtctg 180  
 ctgaaaaaatt gtttttcaca tttactgac tctgtagcat gacattgagt catttttata 240  
 tttgcagaca attaccatct ctagtacggg ttcaatcacc aagggataga cgtcatcaat 300  
 ttcccgcacat tgatcactac tccaacaggt attccactac taggggtcaa catatttctt 360  
 gattgaagtg aatataccaa aactagcta ttacagttac ctttaggata tggctnttaa 420  
 attaagttgt tggttactta 440

<210> 27255  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 27255

ttgcttatat tcgttgaaca cagagtggcg cctggagata tgtcgcatgg gtcacgagac 60  
cttggggacg tcatgcgggg tgctattgcc caaaaccaag cttgaacaat cccgacccaa 120  
ccagggcata gtcagtcagt gagaacctgt gttgtacctt aacatgagag ctgctggcag 180  
tcaacagata aaacgaacaa agaccacaaa gcaagaaagc ttgctgggtg gctgggcaac 240  
tgtgaatctt gtgtgacata tgggttatgg cctctggtaa tacactacca tcggcgggta 300  
atcgattaca aggcttaaaa atgaagac 328

<210> 27256

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27256

tgtctcagcg tttatgcgag acggagacca acatgctagc tatcatcgcc aagtaccaag 60  
aagagttagg tctagccatg gcccacgagc atagaatcgc ggatgagtat gctcaagtat 120  
acgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180  
ggatggatcg gtttgctctt accttaaacy ggagtcaaga acttccccgc ttgttagcca 240  
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300  
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360  
tgggtctctca gaccttgact agatacgact ttctttntga aataaaatga cttgggtccca 420  
tgtttctact 430

<210> 27257

<211> 384

<212> DNA

<213> Glycine max

<400> 27257

atcttttatat taaaggttag tctcataatt ggtctaaata actaaaaatt acacaaatat 60  
ctcaaaatcc cattgaagat tcaaagaccc ttttatggc cgccattaac ggttaaaact 120  
aatgggtccac tataaaacca tatcttttaa tggctctcga ataattcatc aattttattat 180  
tcaaataaat tagtaacgcc tcctattaaa gactcacatt tattgttcaa ataaattatc 240

atgtctttaa cgcattgttt gacaatccca aactaaaaga gtagattaca ataatatccc 300  
 ctaagatttc ttgaaataca catagtactc ctaagtttta cacctacact agacctcgat 360  
 ccttggtgaa gaacatattt gaca 384

<210> 27258  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27258

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 tcaaagagtt gatttttcag aaaatagtaa cactcttaaa cagccatcat agtcacagac 120  
 aactgtaaag atattaagtt gtcaacattg ctattttcat aaacagaata acagatttac 180  
 atatttgttg cttaaaatgt ggaaagttct gttttcaaga cgcccaaac ctccctcctt 240  
 ttacaaatag gcaaatagca tgattggatg accctcaatt tcaaagattt catttctaac 300  
 tggatggaga ttggcttcaa attgaatatg aatatttaca aaataatgct atagttttga 360  
 tgcagtcaa gaccaaatac acaaacatag tcatagattg ataantntaaa atacacattg 420  
 gttaattatg tgaagacact aaaagt 446

<210> 27259  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <400> 27259

agcttctaaa ctttatttta gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatattctta gaaggggggg gttgaattaa gatattccaa attactttcc acaattaaaa 120  
 atttatttca ctttcttttc aagttataga ttcccttaac aatgaacttc ttaaataatta 180  
 attcaaataa aacaatttga atatgaatgt aaagcaataa taaacaaagg aggttaaggg 240  
 aagagaaagt gcaaaactcag atttatattg gttcgccac acccttggtc ctacgtccag 300  
 tccccaagca atccgcttga gagttctact atcttgtaaa ttccttttac aagttctaaa 360  
 cacacaagga caatccttcc tttgtgttta gaatt 395

<210> 27260  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27260

ttgttcaactg cagacccaaa tagcagcttt ataagttatc ttttttcann atcagcaaaag 60  
 ataaattata tatatataac ctgcaagtac caaagggtact gattacagag tgagtcacca 120  
 taaaaatggt tcctcagtca gacatcataa gtctgattgg gaacccaaat atgggaagca 180  
 aagtatacat atattgatcc ctactcccta atgaaacccc tactgctgca gaaaatgatg 240  
 tctcaagtta ctagaccatc gactaaaatg taatgtaaag tccttattca aattatggag 300  
 ccaagtccac attaagaaaag tcgcgtattc taattaccga gattgaaggt cttctaataa 360  
 tatccctaata catataacaa tatctaattg ttagatgtaa gcacattact acttatacac 420  
 tttaaatnta tgaagct 437

<210> 27261  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 27261

agcttataat atatcgaggc gctcgaaatt gaacaacgga agctcttgag aaattcaaatt 60  
 ggtcataact tttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120  
 atgaacaacg gaagctctcc agaagttaaa atggtattaa gttttcacac tgaggtccga 180  
 ttcaggctta taatatatcg gggcgctcga cattgaacaa cggaagctct tgagagattc 240  
 aaatagtcac aacgtttaac tctgatgtac gattcatgcg cattacatat atagacgcta 300  
 aaaaatgatc aacagaagct cttaagaaat ataaaatggc acaagttttg aactg 356

<210> 27262  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27262

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aggtgttgaa gagacggcat gggcatctcc ctcccttcctt tttgcccctg ttgcccgcg 120  
tcttttggca ttcgcgtttg tgaaggaaac gtaatcaaac tttcctcttt tcaatccaac 180  
ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aacctactag 240  
cttctcatag tagaactctg gcagagtgtc caccatcatg gtgatcatct ctctctcaac 300  
catgggagga gctaattgtg ccgccaaatc cttccatcgc tgtgcatatt ctttaaaggt 360  
ttcacctctt tttttgaaca tattctgcag ntgagtaccg tcaggagcca tatcagaatt 420  
gtactga 427

<210> 27263  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27263

agtttattaa ttnttgtaat taggttttta gtttgaagtt attttaataa tgcttaatta 60  
tttacaagcc tttgttcatg ggtggacaga ccttacaat aattaccgga ttcccttcta 120  
gttttatgaa gttagaatga aattttaatc tgtagttaa gtttaagttt aagttagtag 180  
ataaataaaa ctgggtaatt ttgaatatat tctatagata aattaaaata catgtgaaga 240  
aaaatttaaa taaataatct ttttttctac aactaacaaa taaataatta aataaaatat 300  
ggactaacia attatttata atacaaacia atattgaaaa aattatttac acaatatata 360  
tacaataata ataata 375

<210> 27264  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27264

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ctgaatgagt acaaagtgac ttgtagcagt ttggtgagta acctagcatt gtatataatc 120  
agtataaaaa tacctctgtc tatcaaattt taaaatcata tacatatcta agatgaactt 180

aatgttaatt tcaggatgta tcgagtacca tgtactcatt tatgaaaggt gtgggattca 240  
 cccatgtgaa tttggaaggg attacgaaat gtaggattgt ttataatcat aggagaaagt 300  
 ttgcaaaaat tggctattga tggaggactt ttgcacaatc acaaaanttg gaagcttccc 360  
 agatgtaaca tctaactntg ttttattttg gatttgtttg taattgaagt acattatatt 420  
 atactaatat 430

<210> 27265  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 27265

agtttatcat ttgcttaaca atgttatctc cattgtattc gagctcaatt gcatattctc 60  
 tctttgatat atctgaacat ttcattcatt caaattactg cttggaaagt taggagtggc 120  
 ttactgatca aagaatactt atgtgttctt gatcctacgg gaagattaaa ggtgtgtcac 180  
 atgtaacgac ccaactgtccg tacatgaaac tatgaactac tctcaagcgg aagactttat 240  
 ctttaattcat tgaaacacac tcctcttaat gacattat 278

<210> 27266  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27266

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 gncgncaca tgatgccag agatttgtat gatatgagag aagttggaga agacattacg 120  
 ttcgaaagtg agtcgtacca tgagcaagat ttaaggaatc tatttgcaaa tgacataata 180  
 aacaataacc ttggcgaggg atgatgtaga tgatgcgcac atgttggaat tactagacat 240  
 taatttattt catgaactga tatatttggg aagatacaat ttcattgaca tctgggttta 300  
 taaatatata ttatttgggtg tattgcaaaa tttatattta gtattgatac atgttcgcta 360  
 tggtttgctg ctactgtatt aaattctaatt ttc 393

<210> 27267  
 <211> 555



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27267

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ananannaaa gcganaagtt gaagcctgag aacctcgaag agccancnag ctacagnaccg 120  
cggaagcac tagagncgac cagcacgcaa gcaaacttct agatttggac caanacatcc 180  
atcggcacia caaaaaggaa gaagaccggg ccccgacat ctcccgga caccgatg 240  
cacagacagg caaacacgc aagaaaaacg gtgactgtga aaaacagcac ctacaaaaca 300  
aacaggcgca gactccact gcaccacctt gtaggggaga cacaaccga gatgacagac 360  
gctgccggag tcgcatacaa agaggcgaa cgaccaaaa aagggcgca ggcaaaaaca 420  
caggtccaca gacccagca acgacgagaa gccccccaa cacttacagc gacacgacac 480  
gacccaccag cgcaaacgc aggaaaaacg gaacacctag agcgccaaga cgcgcgagcg 540  
tacaccaaca cacc 555

<210> 27268  
<211> 445  
<212> DNA  
<213> Glycine max  
<400> 27268

ctcaagctta cgcgcatact tccttacgaa cgttctcttg cacatgatca ttctattatc 60  
taagaaaaat gcaccatac acaatcaagg cagcttcgtt acctagatta ttacacgta 120  
ctccaaggt gtatttgta cttacatcac acacatctcc ttggctaaat ttacatacat 180  
gcataactcaa agcatttttg ggtacaaaa attgcacatg tgcacatctt ggtatttcta 240  
atacctatac atacgcaaac ttcacatgta atcttgacta ttttcacaaa aaggagctac 300  
atttcacgct cttttttcaa gctgttgcta cttaaagccg catgcatatt caagcatatt 360  
ctcctttgct gactaaaatc gtattcaaat tacaaggat atatgtattt gtaatatgtt 420  
ttttcaataa catgcacata tttat 445

<210> 27269  
<211> 307  
<212> DNA

<213> Glycine max

<400> 27269

ccatcccaag agcttttggt gaggcacat tgacgtctct cagctcgggt ctctcttact 60  
ggaccttgat ggtcgccgtc ttgaactttt ccgtgatcgc ttgtgcccaa acaacttccg 120  
ccattaaggc atgcacctcc tactctatt catggagttt agtctcttac tcacttgagg 180  
tcattatctt cgggagccaa actaactctc gcgtgcaagc cttctaccac ttgggatatg 240  
cgtcgatact ccatttgctg cttccccaag ctctatatgc tatctttgta ccgtacacca 300  
tgcttttc 307

<210> 27270

<211> 242

<212> DNA

<213> Glycine max

<400> 27270

accacggaa ataatgctt gcgcaaaaca acaaaaaaa ggaaatcata acaccaccgc 60  
gaaccgcaac gaaaagagca catataaacc agcgaaagaa aaaaagacaa ataatcgcg 120  
gccaagccca cacaagaag aaacaaacga ccagcgagag caaacatga aaatccctca 180  
aacgtgaacg aacgcaacat tcaccaaaaca tagaaccaac ggccaccaag aacagctaac 240  
ac 242

<210> 27271

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27271

cccgaccaag aacgcgaaag aaaaaccgct tacaccccc ccccgagaga tggtcgagct 60  
cgaancagga caaaaaacc agcggaaaac gaaggggccc aggacacgtt ttctttaaaa 120  
aataccccaa gagaacgaga agtaatgggt taagcaatac atcgaacttg agccactaca 180  
cagagacacg atcgcataaa gaaatagcga cgctatacat aacacgagaa gccgcaatga 240  
agatttaaac gacatgcaa gttacatata aaatcccgcg atgatcaacc cctatctacg 300  
acagaactag cgtacataga caaaggataa aaaacaacca taggcgaaga agcactcaca 360



aatgcagaaa aatatcaaac cgaggatcat cacatgccga caacacagcg acaacacaaa 420  
gccaaataaaa aacacaacag gcaaacagca caccagcaa gaaaacgcaa agacaaaacg 480  
cacaacaaaa acgacacgca acaacacaca acacg 515

<210> 27272  
<211> 337  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27272

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agtgggtacct ggagatatgt cgcgggggtc aagagacctt ggggacgtca tgtggagtgt 120  
tattgccccaa aaccaaactt gaccaatccc gaccctgccc aggcataatc agtcagttag 180  
aacctgtgat gtacctaacg atgcgagctc ctgacagtca acagataaaa ggaacaaaaga 240  
ccactaagca aggaggcttg tgtggtggct ggccaactgt gaatcttggtg tgatatatgg 300  
gttatggcct ctggtgatcg attaaccaag gtgggta 337

<210> 27273  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<400> 27273

ttaggggtga aaaactatat aacaacacct tggttttatt ttaggcctc tctcttctct 60  
ctccccattt ttggttttct agtttttagac tttttctttg agacattttt tttttcattt 120  
tgcaactcca gtagcaataa aatttcgttc ttcaatttat aagttcggtt tctattgatt 180  
aatggaaggc taagtcctta gcgttgcttt cttttgagga tcaagtcgag ttctcttcga 240  
ggttatatta ttactgttaa attctgttca gtttttcctc ttcactaatt actctaaatc 300  
tgctgctatt aattcatgca tgcttagtgc ttgattaatc gtctctgcac ttaatttatg 360  
ttcatgctta ctgatcgttt atgagtaatc ggtgaatgtg ctgcttaatc acatactgaa 420  
tgccttatgt t 431

<210> 27274

<211> 168  
 <212> DNA  
 <213> Glycine max

<400> 27274

atcttcatca gatgttgat ttctagaccg ctacctctta tggaagaatg gaatgtacac 60  
 tttgcatagt atattagatt aatgagcata tagctattga cattgcgacc cttcacagct 120  
 atcagaatgt ctctggcac caccatggac ttgccatat cagcaata 168

<210> 27275  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27275

gaaaccataa aaaccaaagt agtttctaata ttacattta ntgaagaagc tgcgccaagc 60  
 atcccatag aaaaacctt attcaaacct taaaagtta gtgagaaggc taaacgaaaa 120  
 attatggaac ttagaaaaac taaatcctta attgaaggcg caggtgacaa ccatagttaa 180  
 ttactaaaca agattggcag ttactttaa gtcattccaa atacttccca agcctcggaa 240  
 aatactttca aaatggtaac aagaagtacc tccaaatcaa ttaattttat taatgaagat 300  
 agtgaccata actcagataa cacaactgat ataggatcag tgtcagaaag tatataaatc 360  
 caattaatgc caaaca 376

<210> 27276  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 27276

agtttgtagg attatgttgt acccatcaca tgtggtacta ggtggcggtc ggatgatggt 60  
 gcacaaaaag tttccacat acacaaatcg cgcttatacc caccatcccc tgttgccac 120  
 ctccaactga gtcacgtac tcccacgtag cccatatact gatttctctc aacaccgggt 180  
 ccccatcaat cctaccaagc ttccccaaca tccaagtaat tcaacattca aacagcacac 240  
 actatcacag ccaataaaac agggcatagg cttaaaactc tgcccaaagc accaaccaaa 300  
 atcacagcta ttctcac 317

<210> 27277  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 27277

caacaagagg gatctaagga tgaagcttgt cacaccctga tatatatatc tatatatattt 60  
 tagtaattat gtttgatggt tcattatttg ctgcattatt tttatccgta attattttca 120  
 aggagggttaa tttagttaat agaggagtgt gggtagataa ggatctagct tctcaaagaa 180  
 gcctcttgag aaagcttctc aaacaagcca ggaggaagct tcttgatgaa gcctcttatt 240  
 gaagcttctt gaggaagcta catgatctgc ctcggttaaa aactacgca cccttcgtta 300  
 accgttggag cttctagaat ttgcgctgca gcttcaaaca cactttccat gatctgaccg 360  
 ttgggatc 368

<210> 27278  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 27278

gtttctagtg agaatatcga cttttttgca cctgcactca gtgagaatca acaaccccgga 60  
 tctcattatg cacttgtctc tcagccgatg agagaaacac atgtaagtcc gtaagaccac 120  
 actttggttg gattcgggggt ctatccaaga tataaactg aagggatgaa attttctaac 180  
 attcctgtgc tgaatgctct cggaatatct caatgttgcc cggtataaca accctt 236

<210> 27279  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 27279

gtgtaatcga ttacacacat acttacaact ttcacattta gagagccgca gaaaacattc 60  
 tcaacagcca catcttttta ttcggttctt gaatggccat caaaggcata tatatatgtg 120  
 acttgagaca cgaatttgat aagagatttt caaaacaaaa aggtcttatc ctcttatata 180  
 gcaaaatacc tttatcctct tacatatctc ttggccaaaa ctcttttgat tcaataagga 240

attatctgag tgctcacatc gctcaatcta tctctttata cagagatttc ttcttctctt 300  
cttcattctg aaaagggatt atagagaccg atgggtctctt gttgtgaaag gattc 355

<210> 27280  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 27280

agcttgtgga ttttaaggat tgagggctgt tttggtttgt gtttaagttt gagtttgtgt 60  
ttgaggtttg tgttttgga gacaaactcg aagaaaaagt tttgggttta cgtgtatggt 120  
tctcttcata gagtttggcc aacgaaattg ttctgaggag tcatgtagggt gattgtgcaa 180  
tgacatccct tctgatatca ggttttaatc ctcccacata gcaatccaat agagcttctt 240  
gtgtaattcc ttgtactcga ttagctaaag ccgtgaactg cacgtaatat gactgaactg 300  
aaccaatttg agcgagtta aacaactgag atctaggaca ttcataccgt gatgggcca 360  
attctgtctc taatgctc 378

<210> 27281  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27281

tgtcatcgtg agacatcaga ggctagtatt ntaatttatg tgggtaggaa aaattcacca 60  
aattgataga gaaaaatcta aaatcataca tcttaggcaa ataaggcatg ctagcccca 120  
acattattgc attttgattc catctttgga cattgtgatt ttgaaaatta gaaaacccaa 180  
agtttattag ggcatttcat caaacatata actcccaact gatctggcaa aagaaatagt 240  
gagtagaaaa tggaacttgc agacaaaaaa caaataaaaag aaagatgatt ttctctttat 300  
cattcgcaga aaagaaaaat tgaggaaaca cactgcaaac aaatgttttag atttccttat 360  
gtgacattat actaactagt gaaaatttag cagttaattt aaagttaata gagatgcaga 420  
atgtaaataa 430

<210> 27282

<211> 403  
 <212> DNA  
 <213> Glycine max

<400> 27282

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agcttgaagg tgcgtacccc accatttttc atagtaaaac actggtaatg tgtctactat 60
tattgtgatac atctctttcc ccatcattgg aggtgccact tgagctgcta ggtctctcca 120
tctttgggtg tattctttga aagatttgtg ccacttgagc tgccaggtct ctccatcttt 180
gggcatattc tttgaaagat tcgtgcccct ttttgacat gttctgtagt tgcacccat 240
ccagaaccat atcaaaattg tgccgatact gcctaacgaa ggcaaccatt aagtccttcc 300
aagaatggac tcgggaaggc tccaagttag tgtaccaggt aacagctacc ccagtaagac 360
tttcttgga gatatgtatc agtagttact catcttttgt gta 403
```

<210> 27283  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27283

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tttgcttcct ccagaagggt cctgatgggc ccagtgttta gttctcccc ctaaatngat 60
cagttcaccc ccattttgtg tttttttggc tgatctcctt cccaaatgtt gtgaaacttt 120
acggattacg cggcgatgag tggttaagcat ctcaatttgg tcaaccaaaag ttcatatgtt 180
gacaagcaat gtccccagac gaaattaggg tatgacaagg gattctcaaa cctccccttc 240
atgggaacga ggcgttgtat caattatagt ccgctccttg ccataagaca acttggttag 300
cccgtgagag gagcacctgc agaagaaagt atcacacctt tcacgcgca gggtttcatc 360
gacccaatg caaggatatt tcaaaaagtg cagacagcat ggagtacggt gcaaagaaaa 420
gataaggagc tt 432
```

<210> 27284  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27284

agcttatatt ttaaaactnta actataaaaac agttttttaag taaaagacaa aaaggtaaaa 60  
 taaaatacaa gtcaacacta gogatttttg gtgctgcacg caagacaagt catgaccaca 120  
 tgggtggaaag ttgaacactc aaactgccat attaagtcac gcactgtcat tttggttgaa 180  
 aaatcagaac ttttttctct ttacgtaccg ccctggaatc agtacgtaca gctgtaaaca 240  
 tagacgtgtc aattctcaat attcaacagt caacaaacat attgatgcta actgtttatg 300  
 catgtcgtcc catgaaatat tcatcaactc tnttatgctt tatttcagtc aaaaaatact 360  
 aatattcttg gatttatatt atatttatct taattcttat aatt 404

<210> 27285  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27285

nttgttcctt ttataaaaag agaagtnctg aaacttatca cgttgtctat aaaggccttg 60  
 aggtggatcc aagtgtcttg atcattcatt agcatattca tgttttggtg tcatactcac 120  
 cactgtttgt ttttttaggg aactcaccat aactaaaaaa gcgcaaaggc acccctataa 180  
 cactcgatcc agaagtaaga tggataacga agaaggagtg caagaacaaa tgaaggctga 240  
 cctatcggcc ttaaaagatc aaatggcttc tatcacggag gccatgctaa aacttcaaaa 300  
 aactatagaa gataatgcta cggcgggccg ttccaatata gctaggggaag cggaaccggt 360  
 gctatagccc gcaataaaact tggggccaaga cagaaacgcg acgggtttta atcggaggta 420  
 tagtcctcaa gcctaccctt at 442

<210> 27286  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <400> 27286

agtttgtcct ttattatgct atatataggg ggagaagtga cacaaaaaag ggctcagcct 60  
 ctaacgcact tctctctttc tcgaaattgc tgatgaaaat tattttcgtg aagaaaatcc 120  
 tagccgaggc gcttccgtaa cgtttctgct acgtttccat gagtaattac gcgaagattc 180  
 tcgaccgctc ttcaagattc atcgttcgct ctgcgttttc ttcagtcctc aacgggtaag 240



tacctcacac caagcttttc aattctttct atgtaccggt ggtggtccac attttcgctc 300  
atgtatttat attctcattg tcatttactg tttataccct cttttgacgt gct 353

<210> 27287  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27287

gatcataaat tcaaaaacat agggtttagta tttgataatt gaacgcncta tatggcatat 60  
attctatctt gtatcttgat ttcaggaatt aaattgtcat cataaagaag ggggagatta 120  
tagaagcaaa gacattttga tgttttgatg atgccaaagg atcatgcgct tctcaagttt 180  
aattcaagac aagaatccaa gaaattcaag atatatgatc aagataatct ctagagattt 240  
aggaagggaa ttccaatttg aaacaacaag aggtttggcc aatgaattta agctaaaatg 300  
tatttacaag agattaactc tctggtaatt gattaccagc ggccaaaata cttcctgaaa 360  
tacttctaaa atgtcttttag atgtttttga aacatgtaat cgattaccag cagttgaaaa 420  
tatttataa 429

<210> 27288  
<211> 394  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27288

agcttcaact ctttgtgcc atttctgctc caaatcgcca aaggagggca ttttcggagt 60  
cgtgaagcgc gtctctacgt gtgggacttc gaaatttcag gtttgggtgg acttctttct 120  
ctcttgattt tcgtgggtat ggggttttgg gagatatgat gggtagtttt gctagttttc 180  
tgcttcatga tagttatttg tgaagaaatt tgttgaaagc atgttgaact tgccatgntt 240  
ggatgagtta agcttaccba ttcagtttta gggttcttat gatgatgctt gtgatgttta 300  
tgtgctgaaa ttgcttatgc aaaactgtta gagatgaatg gtagagttaa cctacggtta 360  
gatagtgaga atgtggtggt atgagtggaa aaag 394

<210> 27289  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27289

ntagcatggc ctccgtgata gaagccattt gatctttaaa ggttgatagg tcggccttca 60  
 tctgttcttg cactccctct tcattatcca tttttctgga tcgagtgtta taggggtgcc 120  
 tctgcacttt cttagtattt gtgagttccc taaagaaaca aacaatggtg agtatgccac 180  
 caaaacatga atatgcta ataatgatcgg agcacttgga tccacctcaa gattttttaga 240  
 tgacgtgatg agtttcagaa cttctcgttt tataaaaagg aacaaagctt ttatctagcc 300  
 aagatcatatc aaaagtgtta caacagaacc taacagtttc taattatatg ggccatcaaa 360  
 tctatcatgt gttgacagta gttgattagc tcatgaattt ccttaggggc tgtacacact 420  
 tcagcgatgg cctttgcttt 440

<210> 27290  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27290

cactacncaa gcnngcagct gaggtatcct atagcttttg acagccatat tcatatttcn 60  
 tatccccacg gcgcaacggc atctctgtga acagaggcgt ccgnccttta caaattattg 120  
 aatcataatt tttttttcta acttcaccct tcattcatat ttatgagtga gagaagacta 180  
 ataaaatcat aatactatatt ttaatatatt aaggaagggg aattcagtca aaggaacttg 240  
 tttcgcttat aatcgaggct atctaacgac attctcattt cttgtgcaat aacctttcaa 300  
 tgtcgataat gaacggaaat aaaatccttg atgattgaag atattctgtc tattcgataa 360  
 tgcattccgg gtgtgtgctt ttgtccatgc cccatgaaat 400

<210> 27291  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 27291

tgtgattaat acgngngaaca cgcctaagtt taatgttctt ttggcaaagt gggagagtct 60  
gatagggtga gtctaattgc catcaagagg atagtctttg attatttttt tgagtgggtt 120  
gccagagtaa gtgataacca aggagtttct tgatgctcta ggagagaggt atcaagtata 180  
tgataatgtt gaatctggaa gtctaataaa gcagttaatg gacatgagat atgataatgt 240  
tgggggtgta aggaattca ttatgaagat ggtaaacatc cggaccaagc ttaaatccca 300  
caaaattgac tttaataaga aattcattgt tgaacatgcc ttanattgcc tatttgctga 360  
tttcacacaa attaaaattg cctataacac tattggccaa aaatggacta tgaatgacct 420  
tattaccaa tgtgtc 436

<210> 27292

<211> 305

<212> DNA

<213> Glycine max

<400> 27292

cttgcaagtt gtaatataga gatatatata ctgagggact tatttacacc ttacttatg 60  
aagaatactg taccgcagtt acttactcag agtacttctt actccttatg ttagcgagct 120  
catcaaagaa tgaataatca aactaatcac tacatttctt tcacgaattc ttggatgcct 180  
ctcctaacat atcgatcaat tagatatcaa attataccgc gaatactttc atatatatgt 240  
aaaacctaac aaaattagac acagcaaagt cgagaatata taaacataca gataccacat 300  
ataaa 305

<210> 27293

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27293

aactcaactg tggctgggca tttcttggat ggaacttaga gatgcctatt taagagagac 60  
ggaaaaggac gngaaattgn gggaagacaa tatgaagcaa tatggtggaa aatattattc 120  
gaaatcatgc attgctaatt gtggcatatg gtatcatgat caattgtgca aagacatgaa 180  
gcgtaacccc agaagaaaga aaggcctttt tgcggagttg tttgaaccat atggccacgc 240

tgattacatg gatcttactc gcaaatgaaa attttaatgc aattaaattt cttttaagat 300  
tctttgggta gtgtatctct ttcataacga gaatttgacc gtgtctttaa atcctgatgg 360  
gggtgtaaatt aaaaaaaaaat gtatttcttt aattttatct atttattgta ataaatatat 420  
taaatttaag agataacatt at 442

<210> 27294  
<211> 187  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27294

agtttaacaa anacatggaa agccatcaca gtagcgaagc aggacgcttg tcccataaat 60  
tagcacgcaa actacggcga gctgagtgtt gaccctatac atatcaacaa ttcattcaag 120  
cgaaacaaac aaagcaatct aatgatccat ccataggact aaatgtaacc atacatacat 180  
atgacaa 187

<210> 27295  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27295

agtttgtcaa tgaaaatttc atagttcatt tggatattaa atcaaacaca taacttgcaa 60  
ctcgcgaatc agtccaaaac gaataaaaaa acacaatatc attcaaaca tatgtacaaa 120  
gacctgtata acattatcca gataaaacat taaaagaaca aatgagtaga aatcttttct 180  
gcatagccaa agaaaatctc aatacattnng gacatttaac taaacactta gctatcaacc 240  
cgcagagtag tacataataa aatcaaataa atatttagct accataaccc atcaataaag 300  
ccacaccaaa atcaatggaa caacagaaac taataaaatc atatgagtga agcattaaaa 360  
gataaagaaa tagatg 376

<210> 27296  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 27296

```

ttgaagagan agcaccagct tatgatcttt ttgtgttctt tgaaaaagcc tatgacactg   60
tattcttggtc cttcttggat tatatgctat ctaagttagg tttctgtact aaatggagac  120
aatggattgc tgcctgtctc caatcagcat ccttttccat cttagttaat ggtagcccta  180
ctaaagaatt tgtccctact cgtggtttga gacaagggga ccccttagcg ccattgcttt  240
tcaatatagt gggggagggt ctactgggtt tgatgagaga ggccattctg aaaaatctct  300
atcgcagcta ccatgtgggg aatcataagg agcctattaa tacccttcaa tatgctgatg  360
atactgtttc tattgcggaa gcttcttggg agaatgtcct tgccatgaag gcaatgctta  420
aaggttttga gat                                                         433

```

<210> 27297  
 <211> 379  
 <212> DNA  
 <213> Glycine max

```

<400> 27297
agtttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa   60
ttagagtgta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa  120
gaacaccctg gctgtatcaa aggactgtca caacctttgt gtgttgccct cgctggaaag  180
agtgattctt tccttcctat catctccacc cttgttcttt cagaccacaa ttccagataa  240
tccacctctg cccaaaatta tctcgtgacc ataactccca tttcacacac tcaaattatg  300
tgattcttga gcctaaattg aatttcataa cgagaccttt cacctcgttt tggatcacct  360
catttgagac cctgtagct                                                         379

```

<210> 27298  
 <211> 382  
 <212> DNA  
 <213> Glycine max

```

<400> 27298
cttctggctt caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc   60
agcctttgat gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc  120

```

ttgctttcca atattcatag ttgcttccat cgagaattgg tggctctgtc actggtccgc 180  
 cttctttctc catgttcac agaatattatc tccctagatc tcactctgtg atttcgagtg 240  
 ttggctctga taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac 300  
 gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt acacaagtaa 360  
 ataacacaag agaattgtta cc 382

<210> 27299  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27299

agaaaaagag ggaggagaat tgaactntga agagtgcacc acaagactca tattcatcac 60  
 agttatgaca agtgttacac atgcttctat ttagagccta ggtcattaac taaatgaaag 120  
 cctccttgag aagcttcctt gagaaacttc cttgagaagc tagagggttaa ctacacaccc 180  
 cttctaatag ctaagatcac ctccttgagg agcttccttg agaaatttcc ttgagaaatt 240  
 tcctggagaa gctagagctt aactcacaca caccctcta atagctaagc tcacccccat 300  
 gccaaaattc atgaaaatac ataaaagggc ctactacata gactactata atgccctgaa 360  
 aa 362

<210> 27300  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27300

agcttgtgca aatcaaata ctcctacatc tcactcttag catgcatttt ctttctttac 60  
 ccactcctca cgtttggttt tttagggaaa acaccataac taaacgcgcc gcaagggatc 120  
 cctatgcac cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga 180  
 tgaaagccga catgtcggct ctgaaagaac aaatggcctc catgatggag gccatgttag 240  
 gtatgaagca gctcatggag aagaacgcgg ccactgccgc cgctgtcagt tcggctgccg 300  
 aagcagaccc gactctcttg gcaactacgc accatcctcc cccanacata gtaggacggn 360

gaagggacgc actgnggcac gatggcagcc ctcacctgng ataca

405

<210> 27301  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27301

ntgaagagtg ttgtttttca cttctcgcct aagccaatat gctggccttag tgagcttctg 60  
ctatgcgcaa cactcatggg ctaagcgtga ggaagactct ggaagaagat gagctataca 120  
ggttcactaa gcgcactgct tcattctcact aagcgcaccg cttcagttca tccgctaagc 180  
gagaatggca cgtgcaagcc aaaattcact attgtgtgct aagcgggtcca taattgcgct 240  
aagcgcacga gcacgaacaa ggccacctat ttaagcctga aatcagattt tagaagggag 300  
tttggactgg gattcagagc tttgcatgtc tagagtttct agagagagaa aggtccaagt 360  
tccagagagt tttgagagat tttgctgtgt gaagatctgc agagaccaga gcttgaagca 420  
ngagccgatt tgagagc 437

<210> 27302  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27302

ctcaagctng gagaatggct agacatgata catgtcacgg nnatttttcgg ttttgagata 60  
aaaagggatg cccacatta tttccatgac acaaaatgca aaaaaatgat gatttggaaa 120  
ctttatgcaa aactggtcat gcatgcacct atgcggacac tcaagtgtca aatttttatg 180  
gtcatgtgat gctagggctc aagattcatt tcctctattt taatcaaccc aatgtttcca 240  
aaatatgttc ttttatcaat ttgtgcattc atccgagtcc atttcggggcg tccggtgaaa 300  
tttcacagca ttcacccttc atgtgtagac acattttcca aaaattgggt atgatcaatg 360  
aactctgttt tggacatcgt ctcttatcaa tagcatgttc gtttttagct atacaactta 420  
ttttcttatt ttctgcttct ttattttt 448

<210> 27303

<211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27303

agcttgctaa tgataacttan gaaatatcaa gaacaagctt cttcgcacat cgtttgcggtg 60  
 tatgatatcc actcgacaag gtttgaagta gaggagacct tcaatcctat aatgcaacat 120  
 ggcggacaaa agtgggcagt taacttgaat ggccattatt gtcaatgcgg aagggtattct 180  
 gcgcttcact atccatgttc acacattatt gcaacttgng gntatgtgag catgaactac 240  
 taccaatata tatatgtctg ttacacgaat gagcacatct tataagcata ctcccc 296

<210> 27304  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<400> 27304

tcaagcttgc actgccccaa gtggacaacc ttccagaaaa cgttgaagct ttcattgttg 60  
 tcccttatga tggcggttcag tatctcaaaa aagcctacga tgatttggaa gaacccttga 120  
 cctgttttct caaatcttcc aaagttgatt ggcatttcta tgaccatata atgttacagt 180  
 taccaaaaag gttcaaagag aaaaccaa atgtgtggaat agtaagcccc ggttggggcac 240  
 catagttgaa ggtattgagc cacaaggcag ttgggtgggt tttgactcac tctggttgga 300  
 cctctgtggt ggaggttggt tagaatgaaa aacctctagt tttgttaatg tttcttgcag 360  
 accacggatt gaactcgagg gtgttggaag tgaagaagat ggggtattca attcctaagg 420  
 atgaacaaga tggatcattc acgagtga 448

<210> 27305  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 27305

agcttgcccta ttatacaagg acacaacaag agacatgaat cttataaata taaatataga 60  
 tacacatgca cggtaaaaaa tttaaattat aataagaggt gacaagatca ttatacaata 120  
 tataaaatta acataaaaac ataaatgttt aattaaagaa aaaattaata tttaataaat 180



tactatcatt attagttatt gctgttttca tttgtgttta attatttgta ttacttattt 240  
tctattcaaa ctaaacctgt tcataaggca ataaaaattc taaaggggtca gtcacagttt 300  
tctgcaatct ctgtctctta cgtatttgaa agtgtgtata tatatatatg agataaactt 360  
ccacccgttt tttatgtctt aaaaactcgt gccttattaa aaga 404

<210> 27306  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 27306

tgaaggagaa ctagatgcat tggttaactt ggtaacctag catgccttgt atcagaaaatt 60  
tgtacctgtc gcaagagtct gtggtttgtg ctctctgca gaccaccata cagacctttg 120  
cccttccatg tagcaacctg gagcaaatga gcagcccga gcttatgttg caaacattta 180  
caatagacct cctcaacctc agcagcaaaa tcaaccacaa cagaacaatt atgacctctt 240  
cagcaacaga tacaacctg gatggaggaa tcacctaat ctcataggtt ctagccctca 300  
gcaacaacaa cagcagcctg ctcttctctt caaaaatggt gttggcccaa gcataccata 360  
catttctcca ccaatccaac aacagcaaca gccctagaaa cagccaacag ttgaggctcc 420  
tccacaacct tccctcgaag aact 444

<210> 27307  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 27307

agcttctgtt tttatcattt gccactttta taatttttcc agttttccca gtttaatttt 60  
gatgcatttt ctggttgctt gggtttacagg cagttgtcct ttgtcaagtt gaaaaggcta 120  
aggaagacat gctgaatcaa ttatatagct ctgtcaggtt cagaaatttg tttatgcctt 180  
ttattcttat tctcttgcat taaatttctt ccttgcatth cagtctcatt cttgaagatt 240  
ttaaaggaac ataaagaaat tataaaatat ctttaaattc tctttgcatt ccctcagaat 300  
tatctggaat gtgactgata attctggtaa cattttgccg cacagcttca ggcttgcaat 360  
gtatcatgga actgaat 377

<210> 27308  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27308

catgccaaag atccctggac aaatcacagc ttttcacata cntttattaa gaacttttct 60  
 catagcactc tttaaattttg gtttgatgaa aataaaaacc ctgaaatata gtaacccaaa 120  
 gtttgatttt ctaaattgaa actaaaaatc ctgacaaaaa gcttttatta ggcagaaatt 180  
 agtttgataa tcatcaatga agttgctaag tttgctttta cactgtatta atctgagtaa 240  
 cacttaaact ttgggtctcc aatctataga ataaaaaacc cacagcctat caagtcttga 300  
 cctctgagtt taccatttaa taggaagtat cataatcagt cttgacaaat gcaattatct 360  
 cctttcacat tatcacacga cttgcaaagt cattgagcaa ccaaatagata aatgcaacat 420  
 atgaatttct aaatt 435

<210> 27309  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<400> 27309

acgaagtgaa gctgatacat cgaaagtcac acaactcgga aagcggggcga actgttaagt 60  
 ctaccattcg acctagcagc tgacattttt atggaaagcc caagattggg gcctcagact 120  
 gtgaccact gcttatcact aattactggc atgaactatt ccgattaact ggaacataaa 180  
 tgcgcataag atctgagtac tatctgcaat ccaatggcca tacacaatgt cttaatcgag 240  
 tcgattgagc aatatcttcg tgcatttgct cacaacaagc tatcttcttg gggagactct 300  
 ctcatgggt atggatgagg cctacatacc tttaagcgct tagctataga gcctctcctt 360  
 ataaaatact tacgtgacaa aagctcttac tattcccaat acgtacggat cctaccacat 420  
 gtgtactgca accactcaat gttggatgcc gtattgccat ctaaact 467

<210> 27310  
 <211> 396  
 <212> DNA

<213> Glycine max

<400> 27310

agcttgtgta aaaaatccac ttagtgataa atgggaagcc atgctgatag agggcaaaac 60  
ttattttgtc caaaactttg aagctgagat gaactcatgc cattataggg caacaaatca 120  
tcggtagaag ctatctttta tcaaaacaat cattgtgaag gaaacaaata ttgtagatat 180  
acctaaggat gtttataggt tcaccgagta tgagctaatt acaacaagg ctgtttcatc 240  
taattacctt ataggtaatt atgtgtacat atgcaatcaa gtaagatttt gttgattttt 300  
atgaaataag aatctctaac taatatttat tttcttattt cattaaacaa tttaaaaatg 360  
cagatatcat tgggtgtgaca ctttctattc caatat 396

<210> 27311

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27311

actcagcttg tgtgttgatc attttgggag aagatttcat ttttgattct tacacaanac 60  
gntntctctt ctcttgttta ggcctctaata tttgttggcg ggaggcataa acaagttttg 120  
attttgcccc tgtctgtaac tctatccttg atggaagtca ttattattgg agaactactt 180  
atagacattg tttctgcctc ccacataatt tcatacatgg cttaagccaa ttctccttcc 240  
actatgcatt ctctgggact atggacagat ccacacctat cataagtatg gtagaaagg 300  
gtggagttag gaacttggaa tacggattgc gcattcatta aagtctcaat ctgcttagat 360  
aaagcttgaa tatgttgtcc aagtcagaa gtagctactt catcctccac ctggctaagt 420  
gtcctcttca tgattctctt atc 443

<210> 27312

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27312

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acaaagtatt ttcgacacct actgtacatt gatttgacca acgttggttat gggaatgttg 120  
 tgacaatcct tcaaacctt attgatacat tctgagaggt tgggtgtcat gtggccatat 180  
 cgacgtcctt ctctatcata agccatcatc ctttttctt tttaaatgcg atcaatccat 240  
 gttgctatgg atggactcag ttcacaaaat tcttctagat tttgatcaaa aatgtgcttg 300  
 caaggagtgt aggttgcata aaattagtta tgaataaaaa ttttaagtat atatcacagt 360  
 taaataaatg tgaccatgan atatgaaatc ttaca 395

<210> 27313  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 27313  
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 tctagtagag tcaccacggc cagactcgac acctacacta actgcctggg ccatgggttag 120  
 atgaccacga cgtactcga tgcctgacac tgaattcttg ggttggtggc aaatgactat 180  
 agcctttgta ctgacaggca atttgactta ataatttaaa agaaaacatg tgacaaactg 240  
 taaataaatg gataccaatc atggattgcc actaagatag agcttgctta acatcacgag 300  
 cctgacatgt gatggttaag ttgcccaaag gttgaagagg tgcacaatgt cttgcacttg 360  
 ttggaatcct tcataatata ccatgactct atgtgcattc attgtgaaag tggcttagca 420  
 tcctctcctt tgacaat 437

<210> 27314  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 27314  
 agttttgcat accccattga tccattagga aattacttat gaaagagagc catgaggggtg 60  
 ggctcatggg ccactttggg atagacaaga cccttgtctt actcaaagaa aagttttatt 120  
 ggccccatat gaagaaagat gtccataagc attgcactat gtgtgtggct tgttttacaag 180  
 ccaagtctag ggtgatgcct catgggctat acacaacttt acccatccca tctgcacctt 240  
 gtgtagacat tagtatggac tctgtccttg ggcttcctag atcccaaaga ggtgtagact 300

ctatctttgt ggtggtggat aggttctgca tgatggcaca ctctatacta tgccataccg 360  
 tggatgatgc ttccacatct caaac 385

<210> 27315  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 27315

agaaactcaa gctggagatg aggaagtata ctagggggaa acttcctgtt attatTTTTT 60  
 gaccacagag tggtagctgc agatatgtcg cgggggtcac gagaccttgg ggacgtcagg 120  
 tggggtgcta ttgccccaaa ccaagcttga ccaatcccgga cccaaccgg gcatagtcgg 180  
 tcagtgagaa cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaaagg 240  
 aacaaagacc acaaagcaag ggggcttgtg gtggctggcc agctgtgaaa cttgattgat 300  
 atgtgagata tggcctctgg taatcgatta ccaaggggtgg gtaatcgatt actaggctta 360  
 taaatgaaga caggaggcta agatgggtctc tggtaatcga ttaccaaagg ggtgtaatca 420  
 attaccaggc ttgaaaaca 439

<210> 27316  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 27316

agcttgtaat atgtctagtc aactatatgt tcagtttctg gtggcctgtg gaagatgatt 60  
 gggtttttta ctgcattgta taatgaatga tcgaggccgt acccgaatca tataaacatt 120  
 aaaaatacag tatntagga gtagtcctat gtcgtctccc aacgagcaat ggtcaaccaa 180  
 atgttcataa cagatagtaa taaaacagta acgaattggg gggggggg 228

<210> 27317  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27317

ctcaagctta aatttcacta agnaattcaa ttataggatg ttccttacct accttacaag 60

aaacctagaa cttcctttcc cgaagattgt ggattctcat ttcaatttca atgttctaag 120  
 ttaaaatttt ctcgaacaat ataaaaatatt tttttaaacg ttaattattht acatatgatt 180  
 gaagtatgaa gaaatttgtc cattggaaaa atttagactt tatttgatcat atttagctga 240  
 aaattaacta aaaattcaca gtttaaaattt agtgaattaa actatatata aatgattagt 300  
 aaaaataact tatctactac atataaaaatt atgtctataa aaaaaactac atataaaaata 360  
 tgtaaaaatg acatatthtatt gtatgtgtga gtatataata tttacttaat ttatatatca 420  
 atatatattt atta 434

<210> 27318  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 27318  
 agcttgccac ccagctcgcc caggcgagca aggttgcttc ctccagaagc aacagccttc 60  
 tggagggccc aagtgggcct gggttgctatt tgcaccacaca tttttactaa acacaccccc 120  
 tgcccacttt ttttgagat tcttttttcg taaagttacg gaaacttacg aatttcgtaa 180  
 cgatacttgg tttcttttgcg taatgttacg gaaccttgcg gattacataa tcatcccttt 240  
 tttgacttac ggaatgttac tgaacctcac tatttggtga acgatgcttc cttttgattt 300  
 ccggtgtgac acggaacctt acggattgtg catcaatatt atccttt 347

<210> 27319  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27319

tctccccaat ttctataatt ggggttaagt gttgtgaana agggtttagc cccttaggca 60  
 cttctctctc tttcgaattt gcttggaata attgtttccg tgaagaaaat ccaagccgag 120  
 gcgcttcgga aacgtttcca taacgtttcc ataaggaatt tcgcaaggt ttcgaccatt 180  
 cttcgaagtt cttcattcgt tcttcacgt tcttcgatct tcaacgggta agtacctcga 240  
 actaagcttt tcgattcatt ctatgcaccc gtggtggtcc acattgtgct tcgtatattht 300

ttattctcgt ttcatttact ttttataccc cccttttgac gtgcttaagc cattntatTT 360  
aagtcatTTc tcgcttaacc tanaaataaa ataaatttcc accgatcgtt tgaattgtat 420  
tatccg 426

<210> 27320  
<211> 388  
<212> DNA  
<213> Glycine max  
<400> 27320

agctttgaag atatggtcTT caccgacgaa aggatcaaag tgggtctaaa aagaggcaaa 60  
tctgatcatc atgctttgat aaatgccaaa aaaaaaacta gggcaaatga agaggggtgag 120  
aatgaggggag aagcccatgc tgtgacttcc attcctatat atccaagttt cccaccaacc 180  
caacaatgTc attactcagc caataacaaa ccttctcctt acccaccgcc cagttatcca 240  
caaaggcaat ccctatatca accacaaagt ttgtctaccg cacttccaat gacgaacacc 300  
accttttagca cataccataa acaccaacca agaaatgaga tttgcaacga gacaacctta 360  
gaattcaccC caattccagt gtcctatg 388

<210> 27321  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27321

tgctcanag aggaccagga atgacaagtt ggccgttga actagctccg ccccgagta 60  
tgacagtcac cgctttaaga gcgttgtaca ccagcagcgc ttcgaagcca tcaagggatg 120  
gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg attttcagga 180  
ggaaataggg cgccggcggt gggcaccact ggttactcct atggccaagt ttgatccaca 240  
aatagtcctt gaattttatg ccaatgcttg gccaacagag gagggcgTgc gtgacatgag 300  
atcctgcgTT aggggtcaga ggatcccgtt cgatgccgac gctatcagcc agtcctgcg 360  
atatccgatg gtgttggaag agggccagga atgcgagtat ggccagagga ggaaccggTc 420  
tgat 424

<210> 27322  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27322

agcttcacat gtagctacat catgtggtat caagagcatc ttcattctagg tgatgttctt 60  
 ttgcttcctc tattttttgt tcgggtcaatt cactttaatt ccttggttatt catcttattc 120  
 ttcgtatata tcctccattg tcttctgggt tggtgctggt tagagtagat tcaaaaaaat 180  
 aaaccgatta aatcttagat ttacacttgt tcttgcattt ttatgggttca aatnttataa 240  
 atctactctt gaatcatgtn tttgtgttga ttttaagttc tatcattttt cagtcataat 300  
 attcttgtgc tgaaccttta catctaaatt ctattccaaa atattgatta caaaaaaac 360  
 acacaaatct aagtgtaaat cacttaatct atgttgtctt 400

<210> 27323  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27323

ntccacaaag agatatagga gggacgcgcg ggctgattgg accagtgcgcg tccccgagtt 60  
 tgacagccat cgttgcagga gtgctgagca ccagcagcgt ttcgaggcca tcaaaggatg 120  
 gtcgttccac cgagagatac gcgtccagct taggaacgat gagtacgcag attttcagga 180  
 agagatagct cgccggcggt ggacgtcgct ggtcactccc agggctaagt ttgacccgaa 240  
 tatagttcta gagttttacg ttaatgcttg gccacggag gaggacgtgc gagacatgcg 300  
 gtcaagggtg aggggccaat ggattccttt tgatgcagac gtcctcagcc agttcctggg 360  
 tgaccacta gtgtagaga agggccagga gtgcgagttt agtcagagaa ggaaccaggc 420  
 cgatgaatnt gacgagg 437

<210> 27324  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 27324



agcttcttag tttcagatga tgcagatgag cttgtagcta cctcatgcac tcctctaattg 60  
accatggcat catttatggc gctaaattgc tgggagttgg aagccatctt ctcaatcaag 120  
tttctggctt cagcaggagt catgtctcca cgggctccac tactagcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240  
tgatggtgag ggcaattggc acatagcttt ttaaattctt cccagtattc atataggctt 300  
tctccactga gttgactaat acctgagata tccttcttga tggtcgtaga cctagaagca 360  
cggaatatt tctctaagaa tactctctta aggtcatcc 399

<210> 27325  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 27325  
ttcggtcac tcttcttttg accgtctcac tactaattca actaattctg tttggaaggt 60  
tgacatactt caagtttatg cttgacaatt ttctccacgc tccttgatca agtcttgtca 120  
tataaacaaa atcttaaagc aaaccattaa tagttaactt tagataactt tgaatttatt 180  
ttttaaaagt ttgttgtcaa taaaacttta gttcatgag gagttttgtg tcaacaatgg 240  
cttttgatgg cagcaacatg aaatcatctt ttgctgatgt gggttcattat aattttatca 300  
tatcttagcg acagagacta aaaatgaaaa tgcactatat tatagggact aaaatcatat 360  
ttaaggatcat aaattaagtt ttagtctttg tggctaacat agtaacatta gagaatattt 420  
tttggtggtg taaaccacta ca 442

<210> 27326  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 27326  
agtttattat atgctttatc tgctgcagag accattgaca aattcttgca ggtaacagtg 60  
aagagaagga taatgggcaa tagactgtag ttgtaaaatg attggatata attctattga 120  
tggccaccct gcaaccacaa agtcaatttt ttgtaaaaa aaaagtagtg tatgcctttg 180  
tacattgtct tatagtaata gctgcagatg gagttaagtg ccttgacata tctgttacaa 240

ctaaatattc atgttaaagt catgttatgt acattcctcc taaaaggagt cttggaggag 300  
 ggtgttattt gcaagaaaaa ttccaaattc attgcaagac tgccaatggt aatttcaaaa 360  
 ttatcaagac aggaaatgaa acatgtttca cattgatatg ccttacat 408

<210> 27327  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27327

ntgcaaactc aagcagcact acgcaaaatt gcgagtttga agtacaattg cgagctgatc 60  
 cagcttattt ggcatattac aattccaatg tcaacctaaa ccctagactt tctcccccg 120  
 ttacgtcctg agaaaatcgc catctaggac gacatattgg cagttttaga aataattgga 180  
 gaatgtcttc tgcagatgat agcggtaaaa gttctgtaca ttgactcaa aggactcttt 240  
 ccacacacaa ggaggagtct gaagatgatt cagcccaaca gccatatgac gatgaattag 300  
 ttaaggcaag tggaatatgg cgtagacctg atgcaacttc attggcatct cagcacaaaa 360  
 atatggttga ttttaattcac gtgattatat tgacattaac ttctcaattn tgtgaaatac 420  
 attcagttnt ctgcatataa aata 444

<210> 27328  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 27328

agctttttgca tatttagaga tttctagaga gagaaaggtc caagttccag agagttttta 60  
 gagctttttgc tgtgagaaaa ctggcagaga attgagcgag aagaggaagc catcctgaga 120  
 gcatgagatg agtctgtgag tgattgtgag gttctagagg tggagcagac atccccacta 180  
 cttgtatttc ttcaatcctt catTTTTTctt ttctctttgt tggaaaggaa gcttcccaga 240  
 tatggagagc taaatcctct gttggttctt ccttgtacgt acatgatgta aatattgtat 300  
 atctatttaa tgatgattta tgtgttctct gtgctatcag tacgtcattt cagtgtgttt 360  
 ttgccttgat cacataaatg catgct 386

<210> 27329  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 27329

tatttgacat gaagaaaaat tcacaatggt caaataaagt tactccaaat atactttagt 60  
 ttttcataaa aaaatatact ttagttttat gaactattta aaagtagtac tatcctctgt 120  
 tcaatctgac ctaaaaatcc taaaagaatt ggtaggctca caggctcaca tcgattgcgt 180  
 cggtgtacat tattaatgca caaaatcttt atgactatgg caatgtgtta tagaacatca 240  
 cacccaactt atcagatcta cagatgtaat tatttttatt gacttatcca tctgtgtaaa 300  
 attctaactt tttgatggat tttttttcta aataaaagac tacgggtggt tttttaatat 360  
 gtggggtcag a 371

<210> 27330  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27330

agcttttagta aatattaact cagaaaaagc aatcactaaa cgtcaaatat tctagtatac 60  
 atagcaaaaa tggtagggct ggcatagtga atagaaatag aatccttggt ttataactat 120  
 atttagctca aaagtcaaag caggcagttc tcaggcaatt accgttgagt tttggtgcat 180  
 attgtgaaaa gtaccataca tgagcaagaa ttacattgt tgcaaagata aggattggac 240  
 tcccataaca ttaattaaat aaactagaca taaactgtgg aacattaatg taagtacata 300  
 cctcgtgaat ataccaactg tatatactct ntccttcatg acctccaaca tatccatatg 360  
 aagctgtcag tatttcatct tcaactgtaat ctccaatga 399

<210> 27331  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 27331

agttttgcgg atttggctct ttccagtgaaggatcgatg tgggtctgaa aaaaggcaaa 60

tttagtcatc ctgcttggac gaatgagaaa attggggcaa atgaagaggg tgaggatgaa 120  
 gtaaaagccc atgctgtgac tgccattcca atacagccaa gtttcccacc aaccaacaa 180  
 tgtcattact cagccaataa caaaccttct ccttaccac cgccaatta tccacaaagg 240  
 ccatccctaa aatcaaccac aaagcctacc taccgcactt ccaatgacaa acaccacctt 300  
 tagcgtaaac caaaacacca accaagatat gaattttgca gcgagaaagc ccgtagaatt 360  
 caccccaatt ccagtgtcct atgctgactt gctcctatat 400

<210> 27332  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27332

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 ggactgagct aagatagtct gcttctttga cttccaagaa acagccccac cagctatgct 120  
 aaatatatag ccgctggttg ctttggaaatc atctgaaagg gtgttccaat ctgcatcggt 180  
 gtatccttca agtataacaa gaaacctttt ataatgtaat ccaagggtta tggttctttt 240  
 aaggtagctc attacctttt caatagcgtg ccagtgtctc atactangtc tactggtaaa 300  
 cctgcataat aatcccacaa cataggetat gtcgggtcta gtacaatcag tggcatacct 360  
 aaggctgcca atgatacttg catactcagt ttgtcgtata cattcaccag tgttcttaaa 420  
 ccaatttaca cttggatc 438

<210> 27333  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 27333

agctttcaag tttgtagcca ttagaagaga atgagcatgt gattggaagt atgactgaaa 60  
 atgttagtca atttgtcaga ttgattatga aggaatgcat taactgtatc ccagtgagag 120  
 tgtgatcctt atattttgag agaaatgact atcatttagt accgattttt gcatgaatct 180  
 ctgaagtatg gactgaatgc atgaaattga ggatgatgaa ggccatgtct gattgtgata 240

gccacttatc caaaaagctg accacgtgct tgaattatct atcctttaca cccagtttga 300  
gctgaatgaa ttattgattg attgaacgat gaggctacag ctgtatctcc tgctaccttg 360  
acttaagtcg tacgagagca tcatccacat gaagtgc 397

<210> 27334  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27334

ntgcagatctt ggtcttcgcc agggaaaggt ttaagtgggt cggaaaagag gcaaatttga 60  
tcatcctact aggacgactg agaaaactgg ggcaaagtga gaggggtgaga aagagggaga 120  
aaccatgct gtgactgcc ttcctatagc accaagtttc ccaccaaccc aacaatgtca 180  
ttactgagcc aagaacaaac ctctcctta cccaccaccc agttatccac ataggccatc 240  
cctaaatcaa ccacaaagcc tgtctaccgc acttccaatg acgaagacca cctttagcac 300  
aaacaaaaaa caccaaccaa gatatgaatt ttgcagcgag aaagcctgta caattcaccc 360  
caattccagt gtcctatgct gacttgctcc catatctact cgataaatca atggtagcca 420  
taacccaac ca 432

<210> 27335  
<211> 387  
<212> DNA  
<213> Glycine max  
<400> 27335

agtcttagtt tacttacaaa tacaagccgt tagcagattc cactagaatt tttatctacc 60  
agacacaact ttcttgtttg ttctgtcagc cagtcctaca gctgagcaca agccagagtc 120  
aaacttgag caacctccaa aacagctact aagcctacct caattctcaa cctcatttct 180  
tacacgtcta tgacaataac caccgaaaat gtaaaatcaa gcatgctcac actgccaggg 240  
taaaattata ctaatatgta ctatgttact actgtaatac tagataatta ctatgctgta 300  
atggaggctc tgctaggcct ttttccttcc atggcatctt tcttcttctg acagtttgtg 360  
cagaggaatg gactacatgc tggagag 387

<210> 27336  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27336

ttgacctana tttgaacaaa aggaaatcgt taagttatatt attgtcaaga ntagatgggtg 60  
 atgataaaga tgaagaagaa gcggaaaggt tattattaat gtacgttccg gtgagggaaa 120  
 tcaaagtaaa ggggtccaaaa acaacgaaag tagaagtgtc aggaagagtt tggcagagag 180  
 tggcttccaa gatagacca gatgcacatt gcaactgtgat gctaacttga caatggcgcg 240  
 caaattggac cacggcctca ataacatcag aatttttcgg gacttgaatg aagatggggtt 300  
 tcaaggcaag atcgctatct tggttaataa cgaggggtat ttttggcttg ttcttggatc 360  
 caaggggcct accacaacct ttgtttgagg atgggtggcat ttggtgagag gaagatccaa 420  
 tataattatg aacagtg 437

<210> 27337  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 27337

agtttgaatc ggacctcagt gtgaaaagtt atgaccattt gaattttctcg agagcttccg 60  
 tggttcaatt ccgagcatct cgacatatta tgtgcccga tctgaccttc gtgtgaaaag 120  
 ttatgaccat ttgaatttct cgagagcttc cgatgtgtaa tttcgagcga ctcaatatat 180  
 tgtaagcctg aatcggagct cagtgtgaaa agttatgacc atctgtattg ctccaatgct 240  
 tccttgggtc attttcgagc atctcgacat attatgtgcc cgaatttgac ctctgtgtga 300  
 acagctatga ccatttgaat tctcgagagc ttccgttgt 339

<210> 27338  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27338

ntacagcaga ttnntagaat gtttcacttt cctagattgt aaaaaactta atgccattaa 60

cctaggggaat taaaacaaac taaatggctg agtgtaactg aaattgttgg caacccaaaag 120  
 tcacccccaa cagccaacaa gtcagccacc atttgggtctc ccaaaaggct gatgcctaag 180  
 ttgcccaattg ggcccttatt acaacttgaa ctaaagccct tttagttgat taacccaaaa 240  
 catatTTTTg gtcagccaac tttacaagga ttggggcatt atttagacaa actaaacact 300  
 ctaaaattga aataaagtgg tgtcatttag tcttcattt gggccatgat acaactcaca 360  
 accttggact tttctccttg aaacttgggc ttgtattcaa atagtatgga cagcacttgt 420  
 tga 423

<210> 27339  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27339

agcttataaa cccaaacttt taaagcttca atgcaaggaa acatgcttat ggctatgaat 60  
 ccaaaatttg gttntagat tagaaaagca tgaaaatagg gactnttttg taaggatttg 120  
 agctgccccca tgattggcac tctgcaccta agtaacgtgg gagatgcttt ntcaatgggtg 180  
 tgtagatata tgtgaatata tggcatanaa atatgttgcc aagtgtatga atatatggca 240  
 taagaatacc ttgtacagtg aatgaatagt aaataatgca tttcaaaata tgtatatttg 300  
 tggataagca gtataagatg tctttcaaaa aatgaccggt gccaaaattg cagagaaatg 360  
 tttccaaatg aa 372

<210> 27340  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27340

tctacttata tggcagggcg ggtctccttc actntcttgn ctccaacgcy agctctgacc 60  
 actgttcttc cttcccgatg tgccctcttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180  
 gcctaaaccc atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240

tgcacgagac agacaagggtt gcccaaagag ggagtcacg gaggaatgc tgaccacctc 300  
 aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat ctccctcgcc tgacacgatg accaagtgcc cctccactac 420  
 gaatttcagc t 431

<210> 27341  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27341

agcttatagg aaatattcca agtacaacat acgatgttgc tataaatact tgacatcata 60  
 atcttgattg agattattat aaattattat taggatactt ctaacaatat tttcttatgt 120  
 atctgttctt tgtctccaga cacagcagat gcttgatcaa ctctctgatt tgcatagaaa 180  
 ggtaacactc tgtttatgct tttttctgtc atccttaaata atatattact tactcatagg 240  
 ctggccaact actctgtttt tgatggacac acaggaagag atgctactgg aaactaaca 300  
 tatcctgaga aacaaggtag caaaagaata cattttcaca tgtcatcana gtctatacta 360  
 tgatgcactg ataaaatata tgt 383

<210> 27342  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27342

tagactatat ggggcccttc tttaaaagtt aaaaattaaa acaaagctc taataaaaat 60  
 aaggaacgat gaaaaaaatt aacgtcaatc gccattttta aaaataaca aaaattacat 120  
 acaacacatg ggaaatatat agtagaattt attaattaat ggcagtattt aaataaatcc 180  
 aagtcattgg tgtgacatca catagattca ataatgccaa acaaaggat agtagtaact 240  
 acaacgaacc ttacctcttc ttcatttaat ttctcgacct tggtcacaca catatactta 300  
 ctatataatg tcatcacatc actccctcac tctaccaat tagtagtaaa ctctcttcat 360  
 tctatatgga tcaagaaaca acaacgacaa gcgcatatt aggaacactn tttccttttc 420



atccagaaac a

431

<210> 27343  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 27343

tattttcgccc tatagtgagt cgtatgacaa ttcactggcc gtcgttttac aacgtcgtga 60  
ctgggaaaaac cctggcggtta cccaacttaa tcgcctggca ccacttcccc ttttcgccac 120  
ctggcggtatt accaaaaagg cccgcaccaa tcgcccttcc' accagtggcc caccctgatt 180  
ggcaaattggc gcttgatgcg gtatttcctc ctaacgcttc tgtgccgatt tcacaccgat 240  
tatgtgcact ctcagtccat ctgctctgat gccgattatt taagccagcc cgacacccgc 300  
cacaccggtg acccaaccct tgcggcgatt gatatacctc gataattatg tatccaagta 360  
tatcataact cgacttcatg ttatcc 386

<210> 27344  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 27344

aacaagcatc aaacaggcca ctaaacagca aagcgagaga gactagactg cctcatagga 60  
gcactcccat aacatacaca gccggacgcc aggtgacgaa caagcgaaca tgggcccagc 120  
acctgtgctc acctacccca aagagcgaac aaagaaagtg gcagcatgca aaagtgaaac 180  
aagactacac gacgcaagca 200

<210> 27345  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 27345

tcgagatgag gaacagtaga agggtgaaac ttcttgcttt tattgttgct attgagcggc 60  
acctgcagat atgtcgcggg ggtcatgaga ccttggtgac gtcaggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180

tgatgtacct aagcaggcga gtcctgaca gtcaacagat tataggaata aagactcaca 240  
aagcaaggag gcttgtggtg gctggccagc tgtgaattat gtgtgatatg tggattatgg 300  
cctctggtaa tgcattacca aggggtgggta attgattaca aggctttaa aataagacag 360  
gacgttgaga tgggtctctgg taattgatta cc 392

<210> 27346  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27346

agctnattga tttaaataaa gcctagaaaa ataggaataa ttaaggaaat caaagctaata 60  
taatgaaagc taattgagga aagaatgact aattgaggaa attagagcta attaaggaaa 120  
acaaattaat tgaggaaaga atgggttattt gatgaaaata tggctaatta aggaaaaaag 180  
attaattaac gaaaacaagt taattaagga aagaagaata attgagaaaa aacatgatta 240  
attaaggaac taaagacaga cttagtgcga gaagccact aatctgcacc tataaaagaa 300  
gaagagataa gaacgaaaag accaaaaatt tctaccgaat acaattctta tata 354

<210> 27347  
<211> 93  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27347

cacttgatgc catctatnca gaacttctca naggagccga tccggttact tctatatttc 60  
tcaaccagaa gtctgaactt gtggcattct tag 93

<210> 27348  
<211> 102  
<212> DNA  
<213> Glycine max

<400> 27348

agccagtga tctatccgg tgacagtgat agtgtggcga taacggcgga catcacagcaa 60  
tgagtgttga atccgtttcc gaatacaata acgaactgca ta 102

<210> 27349  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27349

natgtttatg gttttttatc nttgatnnac ncacactata tagtactcaa ncctgagtgc 60  
 ctgcannatc aaccatatag gtacggcgtg ccttggtatt gataaaaagg atgccccaca 120  
 ggaggaccat tacacaagat gcaaacgacg atntgcataa ttaatgccaa acgggctatg 180  
 catgcaccta tgcggacacc taagacgtaa aattatatgg tcatttgatg ctaaggctca 240  
 ggattcattt ccttttatatc agtcgaccca acgttatcaa atatagctct tcatcaatac 300  
 gagcattatc cgagtcocatt ttggggcgtcc ggcgaaatct ttacagcatt cacccttcat 360  
 gtgtgatcac atttcttaaa actagtcatg atcgtgaaca ctccaaacat aactggaagc 420  
 atctctttta ataccagggtt gtttctactc gacacttagt ttgctgtggt ccacatacta 480  
 ttgataac 488

<210> 27350  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27350

agtctttgct tagaaaaatg cagaaaccaa aaaatacccc tggttttcat acagccgttg 60  
 tccatcgagg tactgaacaa aaccatcaat gagatatgga ccaacataag aagccaaagt 120  
 gtttaacaat acaagaaaag ctgtgataag aatctccttc catgctgaaa ttattaacga 180  
 tttcaccaac ttcagtgtgg tgacactatt aattccacca caatcagcct caactttctc 240  
 tctgaaagtt ggaaaagcac caattacact atctctgctg tctagttgag gaacatcctc 300  
 aaggctcagg gtcttcttat taccaacggc tataagagga cccaccaag agaaggtaag 360  
 aatgctcaaa attccagcat atgagaaagg cgtaactgag t 401

<210> 27351  
 <211> 398  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27351

gcctcancta tcatattaat agttcatact tttatttctg gagaactgag atcctaagcg 60  
ctatgtgaat atatgctgat tgatgatacc cttcactcgg aaagagatct tataacagga 120  
agctagttga ccaattaact tttcactata ttgctgtatc tgagtcatgt attccttgcg 180  
aatgtaactg gtaatcatct ggtaatcttt ttaatagaga atttatattg gtacataatt 240  
atatatatat ataaaataaa ataacgagat gagatggcta aagtgatggg taaaactata 300  
aaaaaaaaatg ttatataaat ctgttgataa aaatataact ttttaactata tatcaatccc 360  
tttttacttc attctcttat gtattcttcc tttgcaca 398

<210> 27352

<211> 379

<212> DNA

<213> Glycine max

<400> 27352

agtatgtatg atttacattc tcccccttcc tcaagcaaatt tottaattct tcttgacatc 60  
atcaaaatct tcatgattta cattctcccc ctttttgatg atgacaacca cctgtagggt 120  
atgagcatca acaaagaaaa aatatctatt tgcataatag ttactcccc ttggttttgc 180  
aatgattgct tatatgaaac agttgaagat ttcataatttt tcatatataa acctattgtc 240  
tcataaaaaa tagataattt ttcttactat tttatctgtt atctgtctct cccctttgt 300  
caacatcaaa aacaaatcat gaatagagag gagatagacg ttaccacttg ttgcaatgta 360  
tgagaatcaa gtgatacct 379

<210> 27353

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27353

atgatatatg tgagggactc aggatcacta gtaattataa attccttgcg ataaaggcag 60  
tgtggccttg ttatcaaagc ccgtacttag gcatacaact cctaatacata agttgaatat 120



tagcgttatt catgcttcca cgtacgttta tatcattaca tagt 404

<210> 27356  
 <211> 75  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27356

catctagcag agggatgttt acctctactc tgctaaatgt tnccaagatc tccttctcta 60

cctcttccctt ttttt 75

<210> 27357  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
 <400> 27357

acgaggccaa aagctatcgg togtcttagc ctacaagcat tccatgtcca tgaagatggg 60

gacaatatgt atgaacgatg gatcgaccga tctaagaatt ttctccataa atcttacctt 120

atcaagccgt gtacccatct ctctagctga ctggagattg ctgagactct ccagaaatag 180

tgagagaaga actctcttta tctcatatgc agggctgcgc actccactgt taaaggggtga 240

agatgcacct tctcgacttg tgttgtgccg caggctcgaca tagcattcag aacagcgcgt 300

gtctaatacta cgcagact 318

<210> 27358  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <400> 27358

ttttcatgtt cacttggctt ccatgtcatc accgggagta tatagaactg taagagcacc 60

tctatattag ccttgatcaa gtataaccac atcattctat agtgctcatc taaaaatgat 120

gtgaagtact tgtttccacc cagagatggg accgtttaag gaccacactc atcataatgc 180

ataaaaccaa atacgtgca agctatgatc agcaaattggg acttacagga attttttggc 240

tgctagccga tgagacacac attacacacc ttccttggtg cttctagtct tggc 294

<210> 27359  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27359

agctttatga tgaatcaaga ttgattcaag gagtttcgat gataacaaag atgatgacaa 60  
 aaaagctcaa aagtcataac aaagatgatg acattcaaga atgagttcaa gattgagtca 120  
 agaacacttc aagaggaaat ttgatttcaa gaatcaagtt tcaagattca agaatcaaga 180  
 aaagactcaa tcaagataag aattaataat atttttttca aaaactgagt agcacatgaa 240  
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt accagattat 300  
 tgtaatcgat taccagtagc aaaatgggtt tcaaaaagct ttcaactgaa tntacaacgt 360  
 tccaattgat ttcaaatgt tgtaatcgat tacaat 396

<210> 27360  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27360

agcttggttta cacttcctcc tccttaagca tcatgtcggg gtgatctccc cgatcctcag 60  
 tggcctacac ggatgtacta actcgaatct ccaaatgagg acatcacctc tctcattaaa 120  
 cctcacaggg gtcacttcaa attcttgacc atcgtgagac acttcaaact actccagttg 180  
 tcggcaagac ataaattccc aaagaatgta gtagtaccga cagtgatcta tctactggct 240  
 ccatgtgcac tatagtgtga cacatgtaca ccgacatgtc tgtctctcaa cacagccaca 300  
 ctctttctat ctacctacta cgccaagctc acaaagagca cggctccctc aacatctcct 360  
 gaccctgana gttgttggtt gtaccag 387

<210> 27361  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27361

tcgattacac acatactgta atcgattacc agaggagaat ttcataanaat attctcaaca 60  
gtcacatcgt ttctgttggg ttcttgattg accatcaaag gcctatatat atgtgacttg 120  
agacacaatt ttttaaagag ttttcaaaac aacaagtgtt aatctctcaa aaagcaaaat 180  
cgtttatcct cttagaatt ccttgccaat tcaatgcaat tcataaggaa tcattgagtg 240  
ctcagattgt aaactatctc ttcaagagag atcattcttc ttctctctg atcactaagg 300  
ataagaaccg aggtctttgt gtaaaaattc tacacanaga agattgtctt gggttaaact 360  
gtaaagaatt acaagatagt gaact 385

<210> 27362  
<211> 380  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27362

agcttttgtt gctcattgac tccagattgc tgcatagaag gacaaagatc tgaatgggtga 60  
tctatagaag aacatagacc acagactctt gcaacagggtg tagatttctg attcatggca 120  
agctgagtta ctaggttgac caaggcatca agttttcttt caagcttttt attttcagta 180  
gatgaagatg aatccatggc cacctcatgg actcctctaa gaacaataat atcatttctt 240  
gcattgaatt gttgggagtn ggaagccatc ttctcaatca aattcctagc ctcagcaggg 300  
gtcatatcac caagagctcc accactggca gcatcaatca tactcctctn catgttgcta 360  
agtcctcat agaaatattg 380

<210> 27363  
<211> 431  
<212> DNA  
<213> Glycine max  
<400> 27363

tgtggaataa ttaatctctt tgagagtact tttctttgga tctgtttatt tgattggacc 60  
taacacaaaa gagtgcgcat aaaatgtaaa attcactaaa aaaatagcta aaaaataatt 120  
tgacaaaatt atctatatat gtacatgtgt gtttgacgac atagtaactt atttgggtta 180  
cagttgagta ccattattga aggatacaaa actcttttgg cttcaaacia atcgaagaga 240



tttgctcaag atttaggtgt atagtgacta ttactattgt cttataaact aatacacaat 300  
 ttaaactaat aatttctaga gatatacaaa gtgtcttgaa agcatgaatt gtgacttata 360  
 gaaagttatg aagtgttaga atgcttgatt gcgcatgaat tctctaaaga tatacacact 420  
 taaagtaatt g 431

<210> 27364  
 <211> 282  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27364

agcntttata gggagatgat gatgatgatg gtgttgagtg aatgggtatan gaggagggtt 60  
 ttggtacacc gggattcccc taatgggtct tagaaagcca aggtcttggc ttaggccttg 120  
 gtgctgaggc tggaacagtg gctgctgctg ctggtggaag tagtggtttt tctgaaaggg 180  
 tagttggaag gggttggtgg tgggtggtggt ggcattagtg ggggtggcac cgttttggaa 240  
 gtggtgatga tgaatgaggt tagaggtggt ggtgttgag tg 282

<210> 27365  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27365

catccttgaa aggaaaaaaaa atacatggaa actcatgaag gaagcagttg tgtcataaag 60  
 tcacatcaca gttaataact cctcaacttc agatatagct cccgtaagaa tttcaaagtc 120  
 acaccagag ctatagcttg aaaaggtgct aatgagaatg tggcaaaaaa aatgtatgat 180  
 tcattcctta aaagcaatag cttggtgaac agtgaatggt aactaccaa aaaaatgtaa 240  
 gattcattcc ttacaagcag tataagaatc aagggaattg gaatgaccct ccaatttggc 300  
 tgctgccaga gggaggatca atagcaaccc anaggagtga gatagtaatt gaaattagcc 360  
 ccgaccaaac atacacaata gt 382

<210> 27366  
 <211> 403  
 <212> DNA

<213> Glycine max

<400> 27366

agctttttgt ttagcctaaa gaacaagcca aacaaaaaat tagaaaaatc aagacaaaaa 60  
ttcatcttat aactttttta attatgggat ttacatataa aaaaaatggt tttcaattgt 120  
taaaacttga tttgatctta ccatgggtat gtctccatta cgtactacac catattttct 180  
tatatcaaaa aggttagctt gaactttgac atatgaagct agcaatagta gcaaagctaa 240  
tgtggtcata ctccatgaaa aactcatttt tatcttccct tcttatctat gcctttcttc 300  
cactttctttt aaaaaatggg tgattttagt aatgttatgg cataaagcta tttatattgt 360  
acttgcagct ttcttaaggc aactgataga gcatacaaac aaa 403

<210> 27367

<211> 362

<212> DNA

<213> Glycine max

<400> 27367

catatacgct atcacattgc acattactct tgtctttttc caacaataat tcaaccaatt 60  
gttcatectt caatactgca attctttgca tggtagatat tgatgaatta attagaataa 120  
tggtggaaaa cgaatctttt gacattatat tactactttc ttcaagtaac aactggtctc 180  
tatctgccag cttcaccttc tcttttgcaa tgtcaccatt ttcagatata tttgatttca 240  
ttttattggt agagacaatg gataggaatg aatgtagccc gggttcctca acaggctggt 300  
tattctcaga aagaacatta ttagactgga aatccttgtc gttcgcaatc gccatgtcat 360  
ca 362

<210> 27368

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27368

agttttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
ttaccctcgg aagcaaaaag gaatagaagg gaaatttcca atcaaagaaa aagagaagga 120  
aaattttcaa tgaaagcaaa aaagaaaaga aggaaaattc cccaatcaaa gagtggggaga 180

aagcaaaaag aaaagaaagg aaattcccaa tcaaagaatg ggagaaagta aaaaagggaa 240  
 ggaaagaaag ttcttgaagg aaaaacagaa ggaatatgca gagaggtctt tggaccggac 300  
 aatatctgaa caatacagaa ttgtcaccaa atgaacgaga aaagaaggaa agggaaccac 360  
 gacctacaat agtcttctcc cttnngattac caaccaaata cccg 404

<210> 27369  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27369

gcttctagag aaagctcatg aagctgtctc ggtaaaaatg ctaccctacc tttcgtcaac 60  
 cgatggatat tctcgaaatt tggctgttaa cttcacaaga taattttcca tgatcagacc 120  
 gttgggatct ttgagaaaat gtctggagtg tgctagaagc ttccggtccc gagagcattc 180  
 cttatttaag cacttcagcc tttgctttca tgtagcttan gaaaaatgac atttcttctt 240  
 ctttctttct tccaaatcca tttctaaagt cccaatcact ttctccatca cccatagcca 300  
 ccattagcca tcacaaacca tcgttgttct ccattgaaac cccacactaa gaggaaccct 360  
 tcaaccgaag cggaatcttc caacttggct tgcggtttcg atagagaatg aaaccctaata 420  
 ctgacctttc attntctttc aacgtaacca tgattc 456

<210> 27370  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 27370

atttttgttc tataactatt ggtcttcata tgtgcaccaa gcttcaattg gaactcatct 60  
 tacttatcaa tttctttcac atctaactgg gagatgcaag gtacaacccc ttattgatgt 120  
 cgtacatata tttcatcta tatcagtgcg tggaagata tctacggctt ctattataaa 180  
 cattgacttc tgaatacacg cactgattgt tggactggc aagtgggaaa tcctgagttt 240  
 tgaactcatt attaggcata tcattctgtt cagcagtagc tatttaattc ttttcatat 300  
 ttcatgact aacacactgc tcggatacta gatgcatgac ttgcatctaa aaacactcat 360

gatgtctatt acccatgtga atgcagaatc tatatgaa

398

<210> 27371  
<211> 455  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27371

ctggagtcac gtaatccatg ctttcacaaa caaaattact cactcttact tatgattagg 60  
attgcgagaa cacacacatt gattacatcg taagaaaaat aatgacaaac acaagaatth 120  
aacgtgggtcc gacacctctt gcctatgtct acggaactgt ctcaacagat ttactatca 180  
taaaaatgat tacaagaatg taaccaactt caaatagtat atcactcaac aaatccgagt 240  
atthttactta atggttacaa gaaatgataa cactctcata caaagacaat thttcttcaa 300  
caaagagatt ttgtttcaca atthttcttct ttacacacac cctcgthttct ccattaaatn 360  
thttcttctat ttataatgaa gatggtcacc aactataata aataagthtt cttagaagtt 420  
gaaataaaaa caactgtcaa tgcattctatt caact 455

<210> 27372  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<400> 27372

agtctataca gattagaagt gatgaaaaca gttgtgttac gtacttgtaa agaaatcaaa 60  
tgtagcagtg gtataataat tacatatgca cggttgcggt tgttgthcca actcaaatg 120  
aagcaciaag catttgcatc ctctcttgag cthtaaatct tggaatthcc ctattgagcc 180  
tcaattacta gccattaggt gatgttgaaa tagtgagtht thththththtg tgtgattaat 240  
gaaacagtga gatgagggcc aacagaactg agcaaactg ggaaagaaga tcaaggagat 300  
ggctthtaaaa thaaattaag aatggcgagc actattgtta thctthtcaac thcaagtcta 360  
gccatatcat cagtgatgat ctctthtcttg ggcacctat ga 402

<210> 27373  
<211> 237  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27373

ttgaagctnt taaatgaaga gagagcttca gattttccta ctttttatag acccaagtn 60  
ttctagaaaa aatcatctgt gaaagtaata aagtattttt tacctccatt ggaagaaaga 120  
tntattggac cacatatatc taaatgaatc aattccaaaa cacattttgc tctccatgac 180  
tttccattan ggaactgaga atgatgttgt ntgctaacaa cacattcttc acaaacy 237

<210> 27374  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 27374

agctttatnt ccaaaatcac atctacagga ccaaggctct tcatatcaaa attattagac 60  
tagaaaaact tcacatcatt tatggaatgt atattactac caaatatcaa tatgttatcc 120  
acatacaaac ataaaaatggc acatccatta tcatacaaat gtttcactac acacatttat 180  
cactattatt aatttgaaaa taatacgaaa gaataacttg atcaaaacttt tcatgtcatt 240  
gctttggagc ttgttttaag tcatataaag atttaacaac caagaatcta taagtagtac 300  
taagcaaaga atatccaaca aaaacataat taacagttta tgggtccaatt ttgcttttc 360  
ttattaatag ggaatgttaa ccttgctaga cacccccaca ctt 403

<210> 27375  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27375

gcttaaactct agttttaatt ataaattact acaagaaaat tatgttatat attattttac 60  
tgcaaaactaa gaaataaaaa aattacttta aagtaaaaat ctacttctaa ttaaagatta 120  
cttaaaaaaa attatcatat aaattatttt actggaaaact acaaaataaa ctataaatct 180  
aatttaatta taaaattaat aaaaactata cattcaaact gctataaata attacttaca 240  
taaaattata acaaaaatgt attatcaatt acaattattt tgattgttat ataatttttt 300  
tcatatttac caactttttt caggactcaa ttntttttta tttaataaaa tatcatgaca 360

tattcctttt cttttataca cacaacaag ggatataaaa tataaaattc atttaattaa 420  
 aaaattatta acaactataa attcaaactg gtct 454

<210> 27376  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27376

gtcttatgaa ttctttcaaa ttaataagag aattgtatgt tatcacatct ggttcacatc 60  
 ctgcatcttt catttctca aacacagtga ctgetccagt taacatccct acctttccat 120  
 acccataaat gagaggatta taggtgacaa tgtctggcct aagaccaga gctttcattt 180  
 cttcaaataa actcctggca gtttctatgc ccccttctct ggccagacag cctatcacta 240  
 tattatacgt aaaaactgag ggcgaaaggc cagccacaac catgtccttg aaaaggctta 300  
 atgccaatc ccctttgctt gattttgaaa gcctgtgaag aagatcatta caagacctca 360  
 cttttggcag aaccatgaac tngttcttct tccaaaa 397

<210> 27377  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27377

tgagagttta aatccgttga aatcctattc tcggcgactt catttgatta atncaancgc 60  
 tcaattgttg cacgtgtctg catcgatctt tttccttgta cgctctaaag gcattctatc 120  
 tttatgacta ttcttttgta tacatgcgtc tatgttcctt gcatgttagc attaatTTTT 180  
 tcatcctctg tgctgcttaa catctaattc atcgccgaca tggactcacc catgctattg 240  
 cattccaaag ttacgtaaca tgctaaaaca ttttatnttc atcttggcta acacaactgt 300  
 cctttgcagt tggggaaagt atatttgaaa atttcatagc atatcttcca attctaagac 360  
 aaaatgtaaa gaaaaataaa atgatatagt ttcatagaaa agttctttta gctctcctat 420  
 cagaatcaaa tatacactct 440

<210> 27378  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 27378

agcttcttat ccaaggttca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
 gtggatggcg cctcctctca cctcttctcc tttgtcttcc attgcatctc catggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccaa cctccataga agccccacaa 180  
 gcaggcttcc atcatcatac aacaaaatgc aatgtcatgt ataaaaacaa agcatcataa 240  
 atcaaaataa taaaagacca taaaatagag taacaatgaa tccatgctat atcaaaaccc 300  
 ttcaacatat aaaagcccaa aaatacaaga gaatataaat cgttcttcat caaaccttaa 360  
 tcaacacatc agaatgattt atatgaatga agagcgaaa 399

<210> 27379  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 27379

actatatagc catttccatc aaacggtttt cttcaccttc caaagagcat caattccac 60  
 ttacacacaa agggaaatta aagtaacaat ggccctccaa aggcatacc tctcgttact 120  
 ttttatcatg ttttcttttg tggctggcca tagcacggtg ctatttgatg atggtagtac 180  
 gtccaaggac tttatcaaac aaaaaagtac agatgttttg agcttaaaga aatttgtcaa 240  
 gttgggtgac attacttctt cgcttaaaac ggttaacgtc aatgattat 289

<210> 27380  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27380

tgcttcatat aatcctgagc tggagtgagc catggatccc aagtcacctg tgccgtagtg 60  
 acggctacta cataatcatc gtcaatatct gcctttgctg cgcctgaaac tccttctca 120  
 gcagcctcca ctggtgtgtc ctgagcctct gcctctgcct ttggggatc cttagcctcc 180

ccagcctctg gagtgtcttc agcggcctgt gtttgtggct cctgngccac aagagcctca 240  
 ccccccaaa aggaaggctg gactccagac caagctacct gtgccaagaa gtcctccatg 300  
 ctcatgatca gccgctgctg agataaatte tgcatactct gcatgaccag gaaaaggctg 360  
 tgatgaatgc tntgtagcat gggcacgata gcagcac 397

<210> 27381  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27381

ctaagcttaa tatgtctcta attaatttcc tcaatagtta attatttata ataaagaaca 60  
 tgaggactaa ataataacgg taaactatgt ttgcaatcct tttactttta gtaaagtatt 120  
 agtttcctta ctttgatcaa tttggctctg gaattttaga aaaaagaaaa ttgtttttgt 180  
 ccctcgtaa agttcaagaa tcaagtttcg ccaaaagttt agggactatn taagaggtta 240  
 gtttagataa tgaaattttg gaaagattga tgtgtggtta cacgtaattc ggaaaaatta 300  
 atttgacata caatttttgt aatctataaa taaattgtcc gtagtgtggt gtttcgcttg 360  
 ttgttcataa tcattttcaa ctaatatttg ctatggactt aatattcacg actttgaaat 420  
 antttagtaa ctgagtatca tttatag 447

<210> 27382  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27382

agctttatgt ttaatcaaga ttgattcaag gagtttcgat gataacaaag atgatgacaa 60  
 aaaagctcaa aagtcataac aaagatgatg acattcaaga atgagttcaa gattgagtca 120  
 agaacacttc aagaggaaat gtgatttcaa gaatcaagtt tcaagattca agaatcaaga 180  
 aaagactcaa tcaagataag aattaaat atttttttca gaaactgagt agcacatgaa 240  
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt accagattat 300  
 tgtaatcgat taccagtagc aaaatggttt tcaaaaagct ntcaactgaa tttacaacgt 360



tccaattgat ttcaaaatgt tgtaatcgat tacaatgatt tggta 405

<210> 27383  
<211> 120  
<212> DNA  
<213> Glycine max

<400> 27383

ctagttcact acttctagta gttcaagata tgcttctaga ggatttctgt tgccaaaaag 60

ttactctcag gccagaaga tactatgtcc gatgggtatg gagtattata agattcatgc 120

<210> 27384  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27384

agcttgtang tatatagaga tgaatgaagg gagagagaga gaagagcatg aaattttgtg 60

ctctaaaaga gctctgaaat ctgaagttaa tattcaaagtg atcaaagttg aaaaaaaatg 120

cacacacatg acctctatct atagcctaag tgtcacacaa aattggaggg aaatttgaat 180

ttcaattcaa atttcacttt aatttgaaat tgaatttgtg gagccaaact ttggagccaa 240

aatttcacta attatgatta gtgaatttta gttatggttc agcctactaa tccaagatca 300

attccaagat tctccactta gtgtgcttac gtgtaatgag gcatgtaaag catgaacgac 360

atgcacatag tgtgactata tgatgtggca atgg 394

<210> 27385  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27385

tcttctgctc aacagtatat agccgttcat ggctcctttc cattctatta cctccaatg 60

ccttatgtgc caaatgctgg aatccaagcc accattgctc cttcagctcc ttetcaagcc 120

aacatagcta ctgctagtgc agcaccttca aacagatgga atccggattc tagtgcaccc 180

caccatgtca ccaatgtttc tcaaaatata cagcaattaa caccttttga agggtcagac 240

cagataacac ttggtaatgg acagctcctt gacattaact ccacaggtct aacttcattt 300  
 caatctcctt taaaccctac gtttcctcta attcttagca atttgctata tgttccttca 360  
 attactaaaa ttcttattag tgtgagttag ttttgtaagg ataatctagt taattntgaa 420  
 tttcatccta ccttctgtta ggtgaaatca t 451

<210> 27386  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 27386  
 agctttgtat attgggtgaa gcacgctaag atgtcgggtg gttgctatga cgaatggctc 60  
 catcgccgca tgagtattta acctatgaag aaatcaaaag taattaatat acacttgaga 120  
 gagagggtatt agagattgaa tttatctata tatgttgata tatagcaatg aaaatgaaaa 180  
 tgaaaaattta taccaatggc tcatgagttg atggtagcaa gagtcattta cgatgacata 240  
 agctttggct agtagccaaa ttgtgctctc aacaccttcc ttagcaggta agacgacttg 300  
 actgacggca gctgacagat cccagcaga atgtggcaaa ctttaattcga tggccactgg 360  
 ctttaaagtt ccattctctc tcaataaaag gat 393

<210> 27387  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27387  
 ttcaccaaag gggtatcgga attgacgggtt acttcccgcc aattactgng acacgctcaa 60  
 caccatgaac aaaattgaaa aggggggaaaa aataaaccca aaatcaaaat cgaagagaga 120  
 gagagagaga gagagagaga gagagagaga ggtgaaagcg atagacgtaa gagtgaagga 180  
 aggtaatgga agagagagat aagagagaga ggggttttga ttgaagggtg aattgaaact 240  
 gcagagaaaag aaaagggtat taatttggtc ttctaaaaaa aaaaaagttg cttttttagg 300  
 aattaagatt ttctgcaact ccttaccac tgggccacta tacattagaa ttgtacggga 360  
 cgaacttctt atgctaagaa agtgaccctt ttgccctcgg atttcccttt ttntccctct 420  
 tttgcgtgct ctatcttgtc agcaatatct ttc 453

<210> 27388  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27388

agcttgtgct tatcaaatca ctctacatt tcatctctag catgcatttt ctttctttac 60  
 cccctcctca catttggttt tttagggaaa aacaccataa ctaaagcgcg cgcaagggtat 120  
 ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcaggaacag 180  
 aggaaagccg acatgtcggc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240  
 agtatgaagc agctcataga gaagaacgcg gccaccgccc tgcgtgtcag ttcggctgcc 300  
 gaagcagacc cgactctctt ggcaactgcg caccatcctc cctcaaacac agtaggacgg 360  
 ngaagggaca cactgnggca cgat 384

<210> 27389  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 27389

ttatgggggt catgacacta gttttttctc tggaagggaac acaggcccaa cttcaaaatt 60  
 cacaagcaca aatactttca tttgcttccc gaatctgata ccgtgctttt cgatgcctga 120  
 ccaggacata tatgcaaagg atcccaggct agaaaagcct ctaaaatcta atatagctac 180  
 atatgagaca tagaagcata tattattttag aaacatatcc cttgtggaat ctctctttct 240  
 tatagatgat caccagaaag ggaatgaact caaatactat tccaatttgg agagaataga 300  
 aagagattta tgaaggcaat gatttataat tgttattttg ttta 344

<210> 27390  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 27390

agttttctaa tggtatgcct accccttcac ctaataatat ttgcaaactg aaacgctctt 60

tatatggatt aaaacaggca ccaagagtat ggtttgaaaa gtttcgctcg acactacttg 120  
 tttttgaatt cactcaaagt caggatgata cctctctttt cctacacagg actcctaaag 180  
 gcatcatgga gcttcttggt tatgtggatg acattgtggt cactggctca gatcaagatg 240  
 ctgtttctag aacaaaaaat cacctgcatt caacctttca gatgaaagac ttaggccatc 300  
 tcacttattt cttgggttta gagggcgatt ataatcacca aggcatttct ctatgtcaac 360  
 ,acaagcatat tcaaaactgg gtccactage tggactccc 399

<210> 27391  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27391

tcctgcgaat gcaaacatth ggaaagtnat ttttaccaag aaatgctact cttaacacga 60  
 aaatggcata caacctctc caataaacac gaacatcaat gttaaatttag agcaaactca 120  
 tgcacatact tccttacgaa cattcactcg cacaagatat tcttctaact aagaaaaatg 180  
 caccacgca caatcaaggc accttcgtta cctagatcac ttatatgtac ttccaagggtg 240  
 tatttgctac ctacatcaca tgcatttcct tcgctaaatt tacatacatg catactcaaa 300  
 gcactntggc taccaaaaat tgcatacgtg cacattctgg tatttctaata acctatacat 360  
 acacaaaactt cgngatgaat cttggctacc tacacaataa tgtgctacat ttcatgcctt 420  
 attcaagtgt ttctgctact 440

<210> 27392  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 27392

agcttgthttt tgggcaatag caccacacct gacgtcccca aggtctcttg accccacga 60  
 catatctcca ggtaccactc tgtgggtcaac aataaaagca ggaagtttca cccttcaaca 120  
 ctccctcacc tcaagcttgt aagattatgg ggtacctatc acatgtggta ctaggtggcg 180  
 gtcggggcat ggtgcacaac aagttttcca catccacaat gcgcgcataa acccaccatc 240  
 ccctgttgcc cacctccaac tgagctcacg tactcccacg tagcccatat cctcgtttat 300

ctcaagaccg ggtcccccac aatcctccca agcttccaca acatccaagc gaaacaacat 360  
tcaaacagca caagctatca ca 382

<210> 27393  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27393

agacttgtgt aatcaattac gaataacctg gtaattgatt atttctagag ttntatgcac 60  
tgaatatgtt tctaacttta gaaacaatct tcctacctct acatgatgat acatgatgta 120  
catatggata gataaagact aagatgcaac aatcaataca aatgtcactc aaagagttag 180  
gcttgtaaaa agacaaaact cttcaaactt caaagcttaa tcttcatgtt tctcccata 240  
tctttaacat atttcgggtc cgctgtagca atgaatgcat tcttctaata aacaagccat 300  
gaatatgaca ccaaaagtgt ggccgctgaa atgacatgaa tgagataaac aagtaatact 360  
aaaaatatat tctattttct ccacttagat cagatcctgt nttggattga aaatgtaagc 420  
acacatttgg atctcctcaa t 441

<210> 27394  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27394

agcttgcaact tgaggaggga aggatatttg cagctaataa aaaactttct taactatttg 60  
tccttcagat ttactattt ttttttctta tatgtaaata taaataatat aaggctatgg 120  
cttatggaca tggtcatttt taccocctaac aatcttagaa gtaaatatag accatgtttt 180  
tacgcgatac cettatacca cctactcttt ctgcaaaaact tcattactgt tgttcaagac 240  
atacaagtga gcttgtaaca aatcttctac acttggagtg atcacctgca gtctcttga 300  
acccttacca ccgactctgt catcatgctg agactcanga agcccaacaa gtttagcctt 360  
ctctaagtat tctgaacaaa attcaatggc ttcttcttc 399

<210> 27395  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27395

tcttgcgtag ctgctcttgg tgctcagaan atccccaaaa caaatttctc ttattactag 60  
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attggtgctc gttccccctct 120  
 ttggtttttg caaacagaa aataaaaaaa agtacctcag gtacttcac c attatttaca 180  
 taatgaaata tttatatatt tgtgccgata aaaaaaaaaac cttacagatc atagctacac 240  
 actaacagca gtaccagata tcacacagat aacaacatca gacaataatt ccaaccaaga 300  
 ggaaatcatg actacaaata gtagaggcaa taacagacca taatgcaaca cacacaggcc 360  
 caagtacctc agtgacttcg tataaggacc agaggagctg caagcccgat agcagattct 420  
 agaattcctt ctacttcgta t 441

<210> 27396  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27396

tttcttctat cangcaacgc agaatcgaga attcataatc ctaatccctg tcatccacag 60  
 aatagcattc aaacctgaa atggctgaca tcgttctgcc aataccatta cgcaagagag 120  
 aaagcttgac atacagaaga agggatataa taaatgctga agcgattca aaattaggtg 180  
 atcactcttc aagcgagat cagactacaa agagccttca tgacacgaaa cgactataac 240  
 acgtgaaggt ggcgctacca accgggagcc atggttcgcc aagagctgaa agcctaggctc 300  
 cctcatcctt acttgatata tggaaacatg gtggaagctg tgattgtggc ggctgggaca 360  
 tggc 364

<210> 27397  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 27397

tatgggtgtcg ctcattgttct tgggtttccct cacctacatg tgtttatact ctaaagctgg 60  
 tttccacgtc cacatcatca agcacgtgca gccacgctcc tttcatcatc aaccacctct 120  
 tcccttcctc aaacgtaacg gagtggccgt cttcatccca aacttcccgc accggaaagg 180  
 ggaaacggcc ggtgcgccag aaaacggagc tccgccacct ggtgttcgga atcgcgcggt 240  
 catcgaagct atgggagcac agaaagaact acataaagac ttggtacaag aaggacaaga 300  
 tgaggggagt ggtgtggctg gacgatcgcg tgaagacgaa cccaaaggaa gggttgccac 360  
 caacgaaggt gtccaccgac acctcgaatt tcgtatacac caacaagctg gggcaccgct 420  
 ccgcgattcg aatctcccgc atc 443

<210> 27398  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27398

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 aaggtttagt gaaagaaagt aatccaaaaa tgtcgaagaa ctgggtcctg aaaaagcata 120  
 acaagacttt cctagaagaa atgtttctga aatgttaaga aatctagcaa atagccctaa 180  
 aaaaaatggt ataacttggc aaggatatga tataaacaag tattcctttt atacaaaagc 240  
 acaagatgag aaaagtacaa tgcaaaatag tggggtcacc ctaagggtac atgatgacaa 300  
 tccccgtgta gctttcatcc cttactttgg gttcattgaa gaaatttggg agcttaacta 360  
 tgtcaaattt attgtctgtg ttntcaaag taaatg 396

<210> 27399  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27399

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 ctgcaactcg tgcaatgtag gaactcatcc ctgtgaaagt ttcgtttcct cattgcagag 120  
 tctttccagt tagccacatt tgccgtgtga ggggtgagaa tcctcaaaga acacaatcat 180

ggagaggggt gagaagcctt aagtgtaaat aaatcccgaa caaatagatt atgattattg 240  
ttaaattaaaa acatataagt cttgtaatat gcatgcatat ttaaggagaa ggaaagaaag 300  
tttctctcaa aaagaaaaga gaagganagg acgtagataa aagtctatgc tattcattnt 360  
aataattcgt ccaaattaca aaacaaaagc tattatttaa cttattctac atatganaga 420  
gaatcatgaa aggctaaaaa aacagc 446

<210> 27400  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 27400

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taccattaaa aatataatta agcctaatga taagaatttg attttgtatt gtcaaggtaa 120  
aatattatag atcaatctat aaaaaaacat tttaaataa taacgggtgta cgtatgttta 180  
aatcacaaca ttgttaatgt atcataatta aattcaaatt atgatttcaa agagtatatg 240  
ttattgatat tcttttaggt ttgggtggat aagaaacatg aggaaaggaa gaaagcatta 300  
tggaggtggc caatgggttg ttaaactagt tagggtaa atgcactttt atctttaaat 360  
gaatataaaa tttagttttt gatagtgtaa aaagtgcgat aaata 405

<210> 27401  
<211> 137  
<212> DNA  
<213> Glycine max

<400> 27401

ctcagcttat tagacttaaa gtttcgattc attgagagat ctcaaccttc tttgtcta 60  
agctggggcg ctttacacaa ggtcgttact atgcagagag agagtgtcaa aaccacaaac 120  
actttctgca tcatata 137

<210> 27402  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 27402



agcttatgga attgtttctca ttaaacaact aacagtcttg ttgcaagaga caattaagta 60  
cagtactata cccggaagat gtctctttgt tgggatgtat gaagatagaa catttcctgt 120  
tgggtcctcg atttatgga tcattaagat taaaatttag taagtagcta gttaaaagat 180  
tatatcctta ttaatatata gagtacgaaa tgccaaagta atcattataa aaaaaaatgc 240  
caaagtaata aataagagaa ataaaggata tacatgaaaa ttacaaataa ttttaataaa 300  
aatgacaaaa ttaattaatt ttttaacta tatattagaa cctgataaat ttatgactgg 360  
tccaacatcc aaagttttaa attagaacct cataatgttc ttaagta 407

<210> 27403  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27403

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tatcttatgt acaagaataa ttgtagaaat tctctcatct ttagagaaac tagatgacaa 120  
gtttctacca acttaggggg agccctagca gatataaaaa aaagttggaa agttaaatta 180  
tctcacaatg ataataacat acatttcctt tcatgttaat gctgtcagtc aatttctcaa 240  
tgcaccatgt gatagtcatt ggtatgtagt tggtcagatc ctgagatgca tcaaaggatt 300  
acctggcaaa gggcttattg atatgaacaa ggctaacatc attgtacata caaatgcaaa 360  
ttgggaaaga gatgctagtg atagaatatc cacgataggc tattgtgttc ttattggtgg 420  
ngacttgata ttgag 435

<210> 27404  
<211> 371  
<212> DNA  
<213> Glycine max  
<400> 27404

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ttatttgagg ggttttattc ctcatgttgt gataatttga acttgtgatt aaagggtgaat 120  
gtgtattaag atgtgagcta tggactgtgc aatcacacaa ttgtaagacc atttaagggc 180

gacgagtatt gtgatgggat ccactgtggg aacccgacag ttaaaatgat tttgaaaaca 240  
attgagtagt tgtgtgtatt gcatgggtta taggtaaagt gtatgtgatt catgaagtgt 300  
gtttagcact tgatatgaca ataattgtat tgtgagctat gaatcataca ataacctgac 360  
cagtgttgat g 371

<210> 27405  
<211> 457  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27405

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tgggcacact tgtatctatc ttggctctaa gagagctaaa tgcaaacatc atattataag 120  
ccatgatact atgttggtaa tttatgcttt cgcgtgattc ctaatcacat aatagttggt 180  
gcaaaagcat tggaggattc ttgagaaaag gaagttgtac ccttcccatg atgcaacana 240  
tactatattt ggcattagcg tgatttctat tttttcttgt tctttcttca taccacatag 300  
cagcttggca atatgcacat gtttcagaag gatctcctag atcaacatat cctacaaaat 360  
aaatattatt tagtttgaca ttaacaacat attgttgaag ctaanacctc tgcattgtga 420  
gactaanaca tgtgctaatag tcatgagcag attcatg 457

<210> 27406  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27406

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gactgaggat ggttaacttt ggggataaga gccaagaaag aggcattgct gcctctaggg 120  
aaacaaccgt tgacatggaa ctcatccaca aatcttctga actctgggtt tagcacactc 180  
cagaattcct taataaaatt gaaattaaaa ccgtccggcc cagggcactt atctccacca 240  
caactccaca ctgcttcctt aagctcctgg tctgagaaag gtaaaattaa accctccctc 300  
tgcctttgat caagagaagg gaattgaact ccatcaaggg taggcctaga gggattctgc 360

tcagaanatc tgttgagaaa gaagttcaca ggcctatct tcac

404

<210> 27407  
<211> 446  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27407

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gcgtaacact catgggctaa ggcgaggaa gactctggaa gaagatgagc tatacagggt 120  
ctctaagcgc atcgcttcat cagactaagt gcaccgcttc agttcatact tatcttgatt 180  
aagtcttctc ttgattgctg aatcttgagt cttgaatctt gatcttgatt attcttgatt 240  
cttgaatctt gaatcttgaa tcttgaaatc aaatttgctc ttgactcttg aagtgttctt 300  
gactcaatct tgaactcatt cttgaatggt atcatctttg ttatcatgaa gtgatcttga 360  
cttttgagct ntttgtcatc atctttgtta tcatcaaaac tccttgaatc aatcttgatt 420  
catcatgaag cttgcttcta caatct 446

<210> 27408  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<400> 27408

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ggttagaaga gcactaactg aaattaaatt gaatttgaat ttaggaatgt aggcaacatt 120  
atgcaagagt aaggatttgg ttaagcaaac tgaactaatg gcaatgatag gtataacatc 180  
attgttaggc agagtgcag ttttatcaga aacaagttgg taagaccgaa aatgatgaag 240  
ggaacaagaa atatgaatgc tggcaccaga atctaaaagc caacaatcat gaagaaaatt 300  
agaagtggat gtagaaagga tcataccact ggcagaagaa caccttgagg gatgaaacat 360  
tggagcatga cttctaaaag attatcaatt ggtatattg 399

<210> 27409  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 27409

tataatggan aagtctcatc tggtcctagt atgatgctta tttcctttta gtggtcacta 60  
 agaacataaa tgtatacatg tgtatagcat tgtccgactc agtttggttt acctaattgt 120  
 aaatattaaa tttttgctgg ctttatgcta cagatgtggc atacttggtg atacttgaac 180  
 tgattgcaa atcatatctt catttggcat gggttttgat tgtcctgtga aatgaaaaga 240  
 attgataatt aaatttggat acctatttga tcattagett acttgcatat cacattccta 300  
 taatttcatt tg 312

<210> 27410  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 27410  
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 cctgcacgcc tctattgcat ttaccgccgg tccccatga ttggcaagtg aatttgtctt 120  
 cacattcggg ccatcttctt ggaatgtag ccaccccgcg tcaatcaagc tttgcacttt 180  
 atgcttgagg gccacgcact gctcgattga atgtcccga gtacctccgc cgtgatacgt 240  
 gcaggctcgc tcgaggttgt accacctcgg gaaaggagac tagtagattc ttccggggat 300  
 caccactacc aactggttgg cgattaatga tggcaacaag tccccatag acatcagaat 360  
 cacggcgaac tctggaagct tctttact 388

<210> 27411  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 27411  
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 acggaggact aagaacaacc cggttctcat tggagaaccg ggtgtgggaa aaactgcggt 120  
 tgtggaaggg ttggcacaga ggatagtaag aggggatgtt ccaagcaacc ttgctgatgt 180  
 gaggcttatt gcgttgata tgggggcgtt ggctgcgggt gccaaagtata gaggcgagtt 240

tgaggagcgg ttaaaggctg ttttgaagga agtggaggag gctgagggga aggtgatact 300  
 cttcattgat gagattcatt tggtccttgg tgctggtaga actgaaggct ccatggatgc 360  
 tgctaatacta ttcaaacta tgcttgctcg c 391

<210> 27412  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 27412

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 tattgtattg tcttccatta atggtttgag ccaaacaat gacaatagaa ttgctaatat 180  
 tgggtgcagg gcatccatat acttaccgaa atgagttccc atttttgcat ttcaacttca 240  
 gtcaagatcc gtatatggaa tatgatttct ggatcaacaa gataggcggt gatgggtctct 300  
 ttacagactt cactggtagt cttcatcgtt atcaggaatg gacctctaac cgtaaagatg 360  
 atgatgatga caagactgaa tccaatctat tacataaaat tgctttgtta gtctcctctt 420  
 atgaatgatc 430

<210> 27413  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27413

agcttattct tgcaagaagt aaagcttcac ctgaggttga ttctgttctg cacaatgagg 60  
 atgaagggtg cactcttcct cagggattgt agatatagga atcagataag gtgttttcgg 120  
 ttcttaattt taggatataa aaagtaatag ggttattcta tttactgatt attagtgtct 180  
 tcagttaatg acatttccaa taaaaacaaa ttatgtgcag acttttgagg ttagtggaaa 240  
 tctgacatcc aagccctcta gcaatcctca ataaatagct tgtactgata ctaattacac 300  
 aaaagtggaa ttagtggcaa attcagagag tctaaagact aatgtacaac aagttgttcc 360  
 tgacattgat gcaatccaaa ataccgatat tcaaaatcca t 401

<210> 27414

<211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27414

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 catttaggtc aaattgagaa aattggatct gccattntga ccagaaaaag aaagaataca 120  
 tgtaacaaga aaactgggat gttatggatc atgacataac gttttccata aattgagtga 180  
 gagtgagaga gaaaatgaaa aagataaaac tgatattatt gcttagaaaag aaaaaaaccc 240  
 atagagttag atacaacaga ggtatttaaa gagttttgac ttgagaaact aaccacaact 300  
 aactctaact acctctaact aacttctaac agaatgtaaa ctaactctaa ctacctctaa 360  
 ctaacttcta acaaaatgta actacttggg cgcaatttag tgaaaactat cagcccttac 420  
 aacatatata ctgttgtcta atatgaaac 449

<210> 27415  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27415

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 atgctactct taaaacaaaa atggcatata aactcctcca ataaacacaa acatcaatgt 120  
 aaatttagag caaactcatg cacatacttc cttatgaaca ttcactcgca caagatatcc 180  
 ttctaactaa aaaaatgcac ccatgcacaa tcaaggcacc ttcgttacct agaccactta 240  
 tatgcacttc caaggtgtat ttgctaccta catcacatgc atttcctttg ctaaactctac 300  
 atacatgcat actcaaggca ctttggctac caaacattgc atacgtgcac attcaggtat 360  
 ttctaatacc tatacatata caaactccgt gatgaatctt 400

<210> 27416  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 27416

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 ggaagagttt gatacaattt gcacatat tgtacacaaa agttagtcgt attcaccgac 180  
 taacaactcc cccaaattta cggttttgct tgtcctcaag caaaaagaga acaattcact 240  
 tgtcctcaag tgacaatgat atgcaatgac tatgtacaaa ggtgtatgca acaaaagtta 300  
 ctgattgcat gataagagaa tgaagcatta ggtactcatc acttgtcttt cacaaggtat 360  
 gcagttatcc agagaataga ataaaatgca acctatacaa ttagatgtga gtagacataa 420  
 gacagatatc a 431

<210> 27417  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 27417  
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 aagacgacc tttttacctt taccaatatt gctcaagcaa cagaaccact gccaacacct 120  
 ccttcctaaat aaacctcaga accctcctct cttccctttc atctcacgcc accggcgaca 180  
 cccaattcta caacacaaca ttcaccggaa ccaaccctc cgacacaatc tacgccatgt 240  
 tcatgtgtag gggcgacgtc ccttctcagc tttgtcaagc atgcgtcata aacgccactc 300  
 aaagactctc ctgagaatgc tccttgtcca aagaatcggg gttttggtac gacgagtga 360  
 tggtttggtta ttccaccaac ccgatcttca ccaccgtggc cacaac 406

<210> 27418  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27418

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 tatagtgtac tagatcagta gttccatcct tgcaaagatc tcttaaaaaa taaacttcac 120  
 atcaatatgc ttgcttcttc catgtagaat tggatttctt gacaatttaa tggttgaact 180  
 atagtcatag aaaattgtag tagctttaat ttgcttgaac tacaactcct caagaatttt 240

tctcaaccat atttggttg gcaaggtgac aattggttgc tttttagatg accacaaaac 300  
gacacctgtt ccaagcataa agacagaacc aaaagtgtc tttctatcat ctagatcacc 360  
tacataatcg ttgtcagttc cccaagggtt catgttcctt gaaaatagtg aagaattctc 420  
ttggcagcca acaaatgcaa ct 442

<210> 27419  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27419

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ctggaggaat tttctggaag gctcgagtgg gcctagttac tatttgcacc cccattttta 120  
ctaaatacac ccccttgctc tttnttggtg attctttttc cgtaacgtta cgaaatttta 180  
ggaatttcat aacgatgctt gttttctttc cgtaatgtca caaaacctta tggattatgt 240  
aatcatccct tgtttgcctt ccggaacgtt acggaacttt acggattgog cactaacagt 300  
tccttttaat ttccggcatg tcacgaaact tcacggattg tgctacaatg ctttcttttg 360  
acttccggca tgttacggaa cttcacaat t 391

<210> 27420  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27420

ntactgaatt ntctagacat ctggaagaaa gtttaggaatt ttatacaagt gatttggata 60  
aaaggaaaaa tacgaataat cacacaagtt ggcaggaaaa tcagtatcca ggaaaaaaa 120  
tgaaagggaa gtgtgcttgt tgttttggtc canaatttat tctataattg gaaatttcaa 180  
ttcaaaatta gtgtgaagac aagtgccaaa gctagagttt tgttgagtcc ttttttcagt 240  
ttttttttac tctactctag agccattcta agtttctctt tgagtcctag cttgcttcta 300  
tgtcctttta attgctttta ttgttgaata atccttgaaa aattgtcttg ttaaaactcc 360  
attggtttag ctttcatttc attttttttg gtctttg 397



<210> 27421  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27421

tgcttgggag gattgatggg gacccggtgt tgagagaaac gaggatatgg gctacgtggg 60  
 agtacgtgag ctcagttgga ggtgggcaac aggggatggg gggtttatgc gcgcattgtg 120  
 gatgtggaaa aacttgttgt gcaccatcgc ccgaccgcca cctagtagca catgtgatgg 180  
 gtaccccata atcctacaag cttgagatga ggaagtgttg aagggtgaaa cttcctgctt 240  
 ttattgttga ccacagagtg gtacctggag atatgtcgcg gtggtcagga gaccttgngg 300  
 acgtcaggtg ggggtgctatt gcccataacc aagcttgacc aatcccgacc caaccggggc 360  
 atagtcggtc agtgagaacc tgtgatgtac ctaagc 396

<210> 27422  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27422

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 gtccatgctt gggggctcga ccgactcgtc cnccttctat ttgtcatgct acatgacact 120  
 acgagacaca catcaaccct ccatgtcagc cttgatgcaa gagcatgaac gcctagccca 180  
 tagcagcccg actccccaac taacagggtta tctctaacct cttattatgt gaacataatg 240  
 gcatcccttt atctctttat ggggtattcaa ttgtctataa ggctgttagt cgatgaatat 300  
 gactaacttt tgtgtataaa acctgtgtaa attgtatcaa actcctccaa tttatgggct 360  
 atttgtagtg ttggaattac tttgtgttaa agataggtaa taaatactta gtactcgcat 420  
 tntgtgtgtt aataatcatt c 441

<210> 27423  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 27423

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catatctcca ggtaccactc tgtggtcaac gaataaaagt aggaagtctc acccttccac 120  
acttctcat ttcaagcttg taggattatg gggtagccat cacatgtggt actaggtggc 180  
catcgggcga tgggtgcaaaa caattctcca catccacaaa tcacgtataa cccaccatcc 240  
cctgttgccc acctcaactt agctcacgta ctcccacgta gcccttatcc tcgttcctct 300  
caacgccggg tccccatcaa tcctccaag cttccaaaac atccaagaaa acagggcaga 360  
ggcagaaaac tctgtccaat acacatacca acatcaca 398

<210> 27424

<211> 440

<212> DNA

<213> Glycine max

<400> 27424

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agggcatagg cagagaactc tgcccaaac tcaaaccaaa atcacagctt tttctcactt 120  
aaagaccca gtaacatttc ctccgttcca attcggtaac cgttggatca actcgaacat 180  
tttactggaa gtctctagta cataagtcta cattttgacc gttgggatct gccagaaaac 240  
atcaagaact cattctgcac tactctttcc acaaccagca aaacatagca tttttctgca 300  
cttatgcaaa attctgctgc acaatttcac agcaaaattc tgcataaagt gcagatttcg 360  
aaaaccacac ttctctcat ccagtcttgc ccatatcaaa tcctacaagt ctcaaacat 420  
gtatcaatca tgtctaaacc 440

<210> 27425

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27425

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nnnnnaaga ggnnnatgag catgcaatcc cggcgaanch agctcagnac ccggcgatcc 120

tcaagagtct acctgcgggc aagcaaactt tataatttga atgaaaaacg ancaccaacc 180  
gcgggaaacc aactaccaa cacctctaaa ccacaacaca gcgcacagtg cgaattcaac 240  
acatacacc tcgtgcaaaa ccccccggc caacaggaaa caaatacaca cgcaggataa 300  
cccaaaccac acagcaaatc cccggaaaa caccactcaa cccaaaaatc ctagccagaa 360  
ccatcgcgac tacaacggga atcccctacc tattaataaaa caccacaccg atgacacgaa 420  
aagcagcatc gacacacaca ccacaacata cccgaccacg gcagcgagaa acaagcccta 480  
acaacacaca aaccagcagc cataaccaa acaaaagcca gaaccctaac cacacacaaa 540  
caccccc 547

<210> 27426  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 27426  
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gattttattc tgtgaagatc tgcagagact agagcttgaa gaggaaccca tcctgagagc 120  
ttgacatgag tttgtgagtg attgtgaggt cttacagggtg gaggagacat cccaccact 180  
tgtatttctg caatctttca tctttctctt ctctttgttg taaaggaagt ttcttagtta 240  
tggaagctt aatcctctgt tggatctttc ttgtaggtag ttgatgtgaa tatcttttta 300  
tctatctaac gatgttctgc gtgttctcta tgctatcggc atatcattct agtatgcttc 360  
taccttga 368

<210> 27427  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 27427  
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gagaatcgga tctcttgaca atctaattggc tgaactatat tcatagaaaa ttgtagtagc 120  
tttaatttgc ttgaactaca actcctcatg aatttttctc aaccatattt ggcttggcaa 180  
ggtgactatt ggttgctttc tagatgacca caaaacgaca cctgttccaa gcattaagac 240

agaaccaata gtgctctttc tatcatctag accacctaca taatcgt

287

<210> 27428

<211> 564

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27428

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gcaccgggag accctcaaga ggacaccgc acgcacgcac tcttgtctaa gcaacatata 180  
acacagagcc gggacactaa gaaccccgac cgccgacgac atagatacca aataccacac 240  
acgcgaaaaa acagactaaa agcacgatgc actcacacta tacacaacta ccacacgttc 300  
aagactacga ttgagagaag gagtaccaca gccacagtgc caacataagg agaactaaga 360  
gcgaaggcgc caaacaatc tccaccgaca caagcgacga aaaacgaaac gtacgcagcc 420  
accaccgctg aagaaactca cgtacaacac gaagaccata acacgccccaa acataagccg 480  
gtaccacaaa tccaccgacg aaacagacca ccggaaacaa ggacaacaga aaacgcgcga 540  
gacacaaaca acaggaaacg ctac 564

<210> 27429

<211> 388

<212> DNA

<213> Glycine max

<400> 27429

agctttatatt gaatcaagat tgattcagag atgttttgat gataacaaag gtgatgacaa 60  
atagctcaaa ggtcaatcaa agaattgagtt caagatgttc aagatagaat ctagaacact 120  
tcacgattca agaggaaagt tgaagaacac ttcacgattc aagaggatag ttgatttcaa 180  
gaatcaagat tcaaggatca agcttccaag aatcatgatc aagattcaaa cctctagatt 240  
caagaatcaa gagaagactt agtcaagatt agcatgataa ggctttttca catactgagt 300  
agcacatgaa tttttctcat aacatgttta ccacagagta tttactctct ggtgatcgat 360  
taccatattg atgtactcga ttaccagt 388

<210> 27430  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 27430

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ccaagccaat cataatgcta gacaaaatat agatgttatt ataggtaaca atggcggtaa 60
tgacggaccg aggcagaacc gggttaaggg agtaaagctc aatgttcctc cttcaaagg 120
cagaagtgat ccagatgcct acctggactg ggaaattaat attgagcacg tatttgctg 180
caatgactac actgatgtgc ataaagtcaa gctaacagca gctgaattct ccgactatgc 240
ccttgtttgg tggcataaat accatagaga aatgttgaga gaggaacgac cagaggtaga 300
tacatggact gagatgacaa gggatgatgag aaaaaggat gtgccacta gctataacaa 360
aaccatgcga cagaaac 377
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<210> 27431  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 27431

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agctttgttt tggtttaggc atgattgata catgatttgg gacttgtagg aattgatttg 60
ggcaagattg gatgagagga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120
tgtgaaattg tgcagcagaa ttttgcacaa gtgcagagaa aatgcttgtg tgtgggtggc 180
tgtggaaagt ctagtgcaga atgagttctg gatgtttgcc agtagatccc aacgggtccaa 240
atgtaggctt atgcactata gactccact aaaattttgg agtcgatcca acgggtaatg 300
aattggatcg aaggaattgt tactgtggtc tttaagtgag aaaagctgtg attttggttg 360
atgtgttgag 370
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<210> 27432  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27432

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cctcggaagc gaaaagaata gaagggaaat ttccaatcaa agaataggaa agaaggaaga 120  
 tttccaatca aagagaaagc aaaaaaagaa aagaaggaat attccaatc atagagtggg 180  
 agaaagcaaa aagaaaagaa agaaaattcc caatcaaaga atgggagaaa gtataaaaagg 240  
 aagaagaagg aaagaaagct cctgatcagg gatcgaaaga taacagaaga tatgtgcaga 300  
 aaggtctttg gaccggacaa tatctgaata atacagaatt gtcaccaaat gaacaaaaag 360  
 aatgaaagga aaccacgacc tataatgggc ttctcccatt gattaccaac cataatcccc 420  
 tgcgctagcg actttttcgc cccgcactaa aca 453

<210> 27433  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 27433  
 agcttgttct ccatgaatac atagacattt gccttgtgaa gaaattatct aacttagaca 60  
 cattttcttct gacttactca tgatgatgca tgatgcacag aagatatgat atggactaag 120  
 atgcgccatg cattatatca acgcatatat atgcacctca ggggattcga gcatgtatta 180  
 tacactacat cttcgaggac tctccgcgct atgagcgcta gtcttaaatgt ggtacatgcc 240  
 gctccctgta acaccctgga atattaaacc atatatcgac gcatagtcga ctacatcatg 300  
 ctaactgact atatggctga cttgaatgat tcgaggatg acttgagcca ttcgtgtatg 360  
 aacttcatga cgtcca 376

<210> 27434  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 27434  
 aactatactg ctaagagagc ctagctacta cattctatag tagaagggtgc acaccccatg 60  
 tcgatgcgtt ggagtattct acagtatgtg tctaacataa gcagcctatc attccaacg 120  
 aactcatacc tttagcgttac agatgataag ttgctttcta ccaactctttt ac 172

<210> 27435  
 <211> 367  
 <212> DNA

<213> Glycine max

<400> 27435

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accattgact ggggtctatct gctctatgct atcttattat cattaattta tgggtgagttt 120  
gtctaaatct atttcttgaa aaaatatctt ttctatctct tttttttact ttttttttat 180  
aaacaaatgt tatatgctta tcaaaaaata ctttttatct taaattctct ttttaaaatt 240  
aattttttta agtttaagga aataaccctt taatcaaatt tgtcctttct actttaactt 300  
ttcttaagga aaagaaaact ctctgactt tacatacttc ttactctctt tatcccgttg 360  
aagtaaa 367

<210> 27436

<211> 471

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27436

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tgtatttcta ttcttttatt aatatatatg tgaggggtag atgggtgtcac aacatacatg 120  
ttactttcat gcctaaagtt cacactcccc aggtcttcaa ccaacaaaag tcaataaaag 180  
acaacaattt cattcatcac aataaatata tataacgcat cccattcgtc aaaaacatag 240  
tttttcctga aaatcgggat gcatatcaag gacagttata tcgcatccca ttagttaaag 300  
acataattct cttgaaagaa aaatcaacat gcaacaggga cagacatata tctcataggt 360  
taggttcctt gaccctagct atgggtgtta aatggtaaatt ttataataa actcccttca 420  
cctattgtga gttaccccg cgggttcctt gcgcgtcact tgaagattct t 471

<210> 27437

<211> 397

<212> DNA

<213> Glycine max

<400> 27437

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ctacaagtgt ctctcaccta atggaaaact gtatgtttcc aaagatgttg tctttaatga 120

gcttaaatat ccttacaatg atgtttttcc atccttatcc aactctgtca ctccatctaa 180  
gagtaacttt ttaccaactg ctcatattcc cattgtttca ctttctccta atgaaccag 240  
tcttccctct caaactgctg aaactaatcc tcctttctata aatgctgacc ctctattgc 300  
cctaaatgct gaatgcacca attcccaaaa tgtcacacta tcttcttcct ctttgactgc 360  
tgaaccaact tctgtaaatg atgaacactc taacact 397

<210> 27438  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 27438

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tgtcatctct ttgattgaaa caagagtcac ttctaaagag ccaaagctca tgcacagttt 120  
ctgtcaaagc taatctaaca agttcagatt tccagccttt acctccatag caatgcataa 180  
tccaatttat ctctcattc caaattcttg gagtatgatg gataccaagc caatgaagta 240  
ttccaacca gaacttcttc aacataaaaa aatcaaagaa taaatgatca atggtttcaa 300  
cctcagcaca gaagacacat tgattattat tcaacatatc aaaccgatgc aatctggcct 360  
ttgtggctaa tttcccatga cagatcattc ataatgtata gatgcacgac gtcttgcctc 420  
attgtgga 428

<210> 27439  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 27439

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ggatatacaa gacatcttgc caaacaaggt caggtagcc ataactcgcc tgtgcttttt 120  
cttccatgcc atatgtagca aagtcattga tcctgtcaag tttgatgagc tggaaaatga 180  
ggctgcaatt atactgtgcc aatcgaagat gtattttccc cctgctttct ttgacatcat 240  
gattcaattg attgtgcac tgtcagagaa attaaatgtc gtggtcttgt ttatttgcac 300  
tggatgtacc cggttgagcg atacatgaag atcttaaaag ggtatacaaa tgaatttata 360



tcatccataa gcattta

377

<210> 27440

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27440

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gtggtacctg gagatatgtc gcgggggtca ggagatatgt cgcggggggtg ctattgcccc 120  
aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagaga gaacttgtga 180  
tgtacctaaa caggtgagct cctggcagtc aacatataaa aggaacaaag accacaaagc 240  
aaggaggctt gtggtggctg gccagctgtg aaacgtgatt gatatgtgag atatggcctc 300  
tggtaatcga ttaccaaggg tgggtaattg attacaaggc ttanaaatga agacaggaga 360  
ctaagatggt ctctggtaat cgattaccaa ggggtgtaat cga 403

<210> 27441

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27441

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ctaattgctgt ctaatgtcgc atgaggtcat atggaaaagt aagtataaaa tattattaag 120  
atgcattatc gataatatct caatatataa ataaaatctt agtagaatga aattgatagt 180  
tatacttaac tntgttagac actggatgat ccactactga gtgacctaga catcccataa 240  
gattttgatg aaaacaagat ataaacttgt attaaccact ttattgcatg taagtcaaca 300  
ggtttgagga gtggaagaac accaggtgag acctatccat tagtggatac tntgtctact 360  
agaagcaaga agtactcatc taatccatcc aaacaccaat tggaatggac attctatttg 420  
aattatctat ctatgatagc tcatatga 448

<210> 27442

<211> 401

<212> DNA  
<213> Glycine max

<400> 27442

agcttttctg tgcacatcc ggtgcctaaa caccaccttt agcgtaaacc aaaaaggaat 60  
tttgcagcaa aaagcctgta ggattcagcc caaattccgg ggtcatatgc taacttgctc 120  
ccatatctaa ttgataatgc aatggtagcc ataacccttg ccaggggttc tcaacctcca 180  
tttttccgag gatacgactc aaacacaaca tgtgcatatc atggaggaga tccgggacat 240  
tccattgagc actgtatgac cttgaagcgt aagggtgaaaa gtctaattga tgtgggctgg 300  
ctgaaatttg acgagaatca cttgtgaatc ctaacattga caagcggcac cacacatgtg 360  
ggcaattgaa ggttggttgg tgatgactct aatgactcat t 401

<210> 27443  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27443

tctagccaaa tggacttacc ttgaattaat tcctttgatg ccttttttagc cttgtttccc 60  
tttccttggt ttgaagctca ctacaagcct taagtataaa accatgatat taccatatcc 120  
ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgaggggt ttttgtttca 180  
ttggacaact tgttttgttg actatgcttc atgatgtatt ttgggccata cttgatgtac 240  
attgtatatt ggtaaagtgt tggacatgct gaatgaaatg ttgtttctca aaggcnttac 300  
antaaaataa attacatata ataaaattcg aataaaaaat aaaagcaata aagttgagtg 360  
aataagatct taaatggcac aagattgatg aaactctggg ttctgctctt catgtttaaa 420  
ttttatcttt acttctttta tatttc 446

<210> 27444  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27444

agcttattct atctgntaaa tacaaggcat ccttgcctta tatagggaga ggacaaaaca 60

aaaaaataa cagaataacc ttccatatgg atttaggtca cagcccaata attcaccacc 120  
 ttgaactaac atccatatag gacacaaact gtcctctcca agcacacatg aacttaaccc 180  
 caacaatcaa cattgagcaa gcttaagcgg tgatcaaact tgctctttgg aacaagcttt 240  
 atgaacatat cagcaggatt gtgtagagtg ctaatcttat gaactttgat tcttctttct 300  
 aaccgaatga agtgatatct aacatctata tgcttggttc tatcatgatg aacttgatcc 360  
 ttggccaagc atatagcact aaggctgtca cagt 394

<210> 27445  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27445

tgtctgcact agagttacct tcttcataat gtgagattct aaattcatgt tagtcgntag 60  
 atgaaccaca ttatntcacc tgtttaagaa attccaacaa ggaacgactt ctgaacattc 120  
 aaaagcttca aggatagcag atgagtcata ttacagccag aggttctctcc accctttaac 180  
 atgtgcaaac tcaatggcag taacagctgc aagaagctcg gccagcaaag aggaggaaat 240  
 gccaagagga actacgaatc cacaataaaa acctccattt gagttttgaa atatgcctcc 300  
 attagaagca aggcctagat tctctttga agcctcgtca aagttacatt ntatcttaga 360  
 cagatgtggt tgcaactaga taaccaaatt aaaatatggt tgtgattcct aataaata 418

<210> 27446  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27446

agcttttata caaagatgaa agtaatgaga tcaacgtgaa agtaagaaag ttgtatcttg 60  
 tatgttttga tacttgaatc tgtctttact gattgattta acttttctat ccattctcaa 120  
 caaattatta caagtttaaa gacaaacctt tttattatta ttattagtgt taagtttaaa 180  
 gacataaatt ttgaccttg gacgcgagat agtgcagtgt tctttctcct gcaataacta 240  
 aaggaagtag ggaatcgttg tcgttcagaa atagaaaagg gaaaaatgat tgatgatgta 300

tgaattttat atcctacaaa ngatatattaa cggtatgttt ggaaaattat aataatgggtg 360  
catgtttaaa cgacatacan aatcattatt gggaat 396

<210> 27447  
<211> 255  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27447

tggtggacca tgtggataac gaacctaaat ttttgaaccc gcatattttc ctagatttta 60  
ggcttggccc atntagtctg cggacttcac gagcttaatt cgcaaaggcc acaaacttat 120  
ctgtatccgc tttagttgaa ggtaagccaa agagaccaga ccattcttcc attcccatta 180  
gctaacgcaa acctaatttg gtggagtttc atttttcttc tcctttgaga acacatagtc 240  
atcatcggcc ctcct 255

<210> 27448  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27448

agcttctana ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaata 120  
tctatttctc tttttactca agttatgaat tcccttaaag acaatcttct taaatattaa 180  
ttcaaacgaa gcaacttgaa tgtgaatata aagcaataat aaataaaaaga gattaagggg 240  
agagaaaatg caaactcagt tttatactgg ttcggccaca cccttggtgcc tacgtccagt 300  
cctcaagcaa cccgcttgag agttccacta acttgtaaact tccttttaca agttctaaac 360  
acacaatgac aatccttctt ttgtgttttag agatccttta caaca 405

<210> 27449  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 27449

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cgctaagctc aaattcactt actcatgcta agcgcgagaa tgacgctaag cgtgacgtcg 120  
agatcaggaa gtccttttta agcctgattt gcacaaaatt aaagaaagaa gagagaactg 180  
ttcactactc agaggcctga agagtgtgaa tntcagagac catagagtag agcaagaggc 240  
caagttttca tcttttaggg agattagtga atttttgagt gtttgtgaga ttcttagagg 300  
tggaggagac atccccactc ctttgtaagc aagcaataac tcttgattcc tcttcttcag 360  
tgtaaaagga gcttccttgc catgaaaggc taaaaccctc agttgtggat tcttatggat 420  
tagtggatgt aaactctttc tcatatcta 449

<210> 27450

<211> 400

<212> DNA

<213> Glycine max

<400> 27450

agtattatc aatttggtgc aaaattacca acaacctcct tcgaacgaaa attcacaaca 60  
tcctccttcg atgtttcctt tgttgccact accacctcct tcaatgagcg aaaatttcta 120  
aattcctcct catttcattc cctatttgcc actcctcca ccaccagtaa cttataatca 180  
atcccccttct accgaaaatt ctcaaagatc tcaaactttt cttcaatgtc acaaacacc 240  
tctatcgcat ttcataagcc tccaatagt tatattcgtg cacaaactcc ttcaaagag 300  
gaagttgata ttacaataga ggaaggatga gggagttcta caaagaagaa gaagggataa 360  
cgattatgct tttcgattga agaggataaa cttgtcatta 400

<210> 27451

<211> 442

<212> DNA

<213> Glycine max

<400> 27451

tgcagaccct ttatcatttg ttgtttgagt catcgttcac tgttttcttt gttggacact 60  
attgatactg agcattatca catgtacttg tcttggcctg atttatgtta caattattat 120  
tacgttgttt tatgtgatta atgactattg ttgtgcatat agttaatgtt tatcatgagt 180

gaaccttaga ttctctgtttg agattcaata cagtgattct tgtggatagt tcgcattaat 240  
cattgtattg aagcttgata ttgttcgttt ggacagttta gggagactca tatttttatg 300  
gtagattcat gcgtaaaggt taagattact ttggtaaatt tgatgacagt tctgtacaat 360  
taatgcatat ctagtgttgc tctgagtgca tacttgctta ttgcggaaat aatctcaccg 420  
atttcatgtc gagaacttgg ag 442

<210> 27452  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 27452

agcttgtatg gttaacgtct cagcattgac acgtgctcat gcaacaattg ttaggcgtgg 60  
ctatacgaga catctttcca aacaaagtcg gggcagccat cgctacccta tgtgacttct 120  
ttcatgcgat atgtaccata gtcctggatc ctgtcaagct cgatgagcta taaaatgagg 180  
ccgcaataat acagtgctag taggagacgt attgtccccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatcta gtcagagaaa tcaaagatg tggacctgta catctgctgc 300  
ggatgtaccc gtgagaacga tacatgaaga tcttagaagg atatacacag aatctatatc 360  
gttcagaagg cattaatgat gagaggtaca ttgc 394

<210> 27453  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 27453

cccgacacat gtggtactac gtggttttct atcaaaggcg caagacgact atccacatgc 60  
acaaatcaca cataaatcca ccatccccag ggggccacct tcaactgagc tcacgtactc 120  
ccacgtagcc cttatcctca ttctctcaa catgcgggtc catatcaatc cctccaagct 180  
tccacaacat ccacgcaaat tgaacatccg aacatcatga actatcaata ccaagaaaaa 240  
acaaggtaga ggcagataac tctgccaca agacacaaac caataccaca acttttctta 300  
ctgatatacc cgacgaacat tctctatggt tcaattcggt caccgttgga tcgactcgaa 360  
tattctactg caggtaccta gtacatacgt gtacattatt accgttgaga tctgctagaa 420

aacgtccaga ac

432

<210> 27454  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 27454

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ctggagttgc tgcacatgat gtccaacggt atgtcaagga ataagatcgg gctgcacaat 120  
gcacaaggca agataaaatg tcaaatgaag aattgaagtt gcaggatcca cgatgtcgga 180  
tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgtacaatgc aagataaaag 240  
acaagtgcag aagtgaagct gcaggatcca cgatgtcgga tacaatgtcc tgacatcctg 300  
cccgagaata ctggaattgc tgtacaatgc aagataaaag tcaagtgcag aagtgaagct 360  
gcaggatcca cgatgtcgga cacgatgtcc tgaca 395

<210> 27455  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 27455

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cttgaccaat cccgacccaa cccggggcatc gattacacag tgtaaattgc aggtttccat 180  
gttctgaagc tgtgtaactc gagtttggcc tctggtaatc gattaccaat gttgtgtaat 240  
cgattaccag agaagaaaac ccttgaggca taccttttaa ctacatgtag cggttatggg 300  
actcattgtg ttgtacacgt agttagattt ctcatgaaag agtctacccc tttttctctt 360  
atctcttgta gatcgcgatg gcagcgcaat taatccatga ttgagtggag atggagt 417

<210> 27456  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27456

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 attcgggttta tatacagtcc atataatata gccattatca tagtacgaac cttttttttt 120  
 aatttggttac atgaaattct aaaaaaataa ttoggcaaaa aaaccgatta aactataggg 180  
 ttagtgctt aattatgtat acattccttt tgagttgtca cgtgcttcgt gcttaaacad 240  
 tttctatgat aaacaataat tgacaagtca tcaatatagc ctgtttttctc ggtcattcgt 300  
 acactntccc taagattatc attntgttcg tggaatttaa taccaaataa ttgtttgtca 360  
 ttatattctt aaggaattta cgtccctctt atntgtacta ttgccttaca actagcatgt 420  
 agagaaagtg ctcaagca 438

<210> 27457  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27457

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 accttcttta taccaacagt aggttgggca tctcctaagt ttgtaatttt caagcccttt 120  
 gaactgcatg agcaaaccac aaaaaattgt ttatataact ataaaaatta gttgtatgta 180  
 aaatttggca atggaccaac atttacctga taaattcata caaattgtgg tactcatttc 240  
 tctgaatatt acgaaagaga tggtcttggt cagatttttag tctgaagaga aggtcaaaat 300  
 aatgcatatt ggaaccacca ccagcatgcc actcaaattc cacatagtca atctgataag 360  
 aaaggaaaaa aaacaattaa gatctccacg gtgtaaatat c 401

<210> 27458  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27458

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 ttccttacta aactctccat gggttttaat tntatctttt ttaatacat aggtagaagc 180



tcttagatTT atgttttgtt aagctctctg gttgctttgt caagttttaa gaaaagcatt 240  
 ttgcttcttc agattctttt tttttttttt gcttcttcag attcttttaa attttaagct 300  
 gtaaggaaat gatttggtga cagtacgagt tttttttttt tgcttgatca ggttctgagg 360  
 gtaatttc 368

<210> 27459  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27459

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 gaaatcgtgg gaagtatggt ttaggctata aaccactca ggcagatata aagagaagca 180  
 tcgcgggaag aaagagtggg ggtcaaagct cgcagttgag acaagaaagt gaaggaagtc 240  
 cgccctgcca cataagtaga agctttataa gcgcgggtct gggagacgaa ggtcaagtgg 300  
 tcgcgatata cgaagatgat gttccgagta cattggattt agtacgacca tgccctcttg 360  
 atttccagct angaaattgg ctagtggagg aacgccctg 399

<210> 27460  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27460

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 accattaaag gacccattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180  
 gcttccatca agtgggtatca gagcacaaga gtttcaagta ggtgctcctt aaacctccat 240  
 taattntttt ctttaccttc tcttccattg ttgtttcttc atttatctcc atgtatctcc 300  
 tcacatgtct tgttctaaat gttgctaaca tgattcttta gagtttccac cgattaaact 360  
 tgctatagaa gttagaaatt gatttctatg gttcanaatt cttgttcttg ttctttgaac 420

catgaatgcg ttgagttt

438

<210> 27461  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27461

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tgtgggagag ttgatttgca ccatcgcccg atcgccacct agtaccacat atgacgggta 180  
ccccataatc ctactagctt gaagtgagaa agcgtggaag agtcagtctt cctactttta 240  
tttgttgacc acagagtggg acttgagat atgtcgcggn gctcatgaga ccttgnggac 300  
gccaggtggg gtgctattgc ccaaaaccaa gcttgatcaa tcccgacceca acccgggcat 360  
agtcagtcag tgagaacctg tgatgtacct aaata 395

<210> 27462  
<211> 250  
<212> DNA  
<213> Glycine max  
  
<400> 27462

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ccccaacagc cacaagtcac cccatttgtc tcccaaaagg ctgatgcctg gttgcaattg 180  
gcccttataa actagactaa accctttagt tgataaccaa aacattttta gtcaccaact 240  
ttcaaggatt 250

<210> 27463  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27463

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 gatggtcgtt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgatttcc 180  
 aggaggaaat agggcgccgg cgggtggcat cactggttac tcccatggcc aagtttgatc 240  
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgagatcctg ngtaaggggt cagtggatcc cgtttgatgc cgacgtatc ggccaactcc 360  
 tangatatcc gttggtgttg gaagagggcc aggaatgtga gta 403

<210> 27464  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27464

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 taccaccac ccagttatcc acaaaggcca tccctaaatc aaccacatag tctgtctacc 120  
 gcactttcaa tgacgaagac cacctttagc acaaacctn anaaaaaaat attaataaaa 180  
 ataaaaaaat cccccaccaa aagggtttt gcagcaaaaa gccttgtggg tttaacccaa 240  
 attccgttgg catatctaaa cttgatccca tatctacttg at 282

<210> 27465  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27465

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 tctaaaagtc ataactcttt taatggttgt cttgaccaga catgaagagt ctataaaagc 180  
 aaggctttgt ttgcatcttc aagtatcttg aacacttatt caatcaatca tttaacaagcc 240  
 ttaaattctt ttgaacttct tcttcttctt tgtacaaaa gctttctgaa gttttctggg 300  
 tttccaaacc ttgaaaactt gtgctattca tcttttcatt ctcttctccc ttgcaaaan 360  
 agaattcgcc aaggactaac cacctgaatt ctttntgtgt ctc 403

<210> 27466  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27466

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 gcaacaaaaa gtcaccccca acagccaaca agtcagccac catttggtcc tccaaaaggg 180  
 ctgacccctan gttgcccatt gggcccttat tataacctga actaaacctt acttaaacc 240  
 ttttaattga ttaacccaaa acatattttt ggtccagcaa ctttaciaaag atggggccatt 300  
 atttagacca actaaacact ctaaattgag acaagtgg 339

<210> 27467  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27467

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 attgctccat ttaagggtca ccatttcctg aaatcccttg tcctgcagcc accaatccat 120  
 gaccttgaaa ggcttaggac cccaatcaac acttttggat cttagaagga tagggcgatg 180  
 atctgaaaaa tctctgtcta gtacaaactg tgttgtgtca ggccactgaa atgacccctt 240  
 gctaccctgc aatgagacac acacagatac acaaacacac acacatagag acaaacacac 300  
 gcagacacaa acacaaacac aaacacacac acacacacac ataaagatac acacacacac 360  
 acacacacac aaagtcatga attcccatgg gtatggagta tc 402

<210> 27468  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27468

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actatcatta tcatctttct ccgtcattga ggtgccactn gagctgccag gtctctccac 120  
ctttgggcgt attctttgaa agatctgtgc ccnttttgc acatgttctg ttgttgcac 180  
ctatccggaa ccatatcaaa atggtactga tactgcctaa tgaaggcaac ctttatgtcc 240  
ttccaagagt ggactcgaga aggttccagg tcagtgtacc aagtaacagc taccacagta 300  
agattttctt ggaaggaatg tatcagcagt tctcatctt ttgcgcatgc ccncatcttc 360  
caataatata tctttagatg gttcttgggc aagtagtccc cttgtacttg tcaaagtcca 420  
gcaccttgaa cttgggaggg gtgatgata 449

<210> 27469  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 27469  
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tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120  
ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc aaccaacaa 180  
tatctttact cagccaataa caaactttct ccttaccac caccagtta tccacaaagg 240  
tcatccctaa atctaccagc aagtctgtct accgcacttc caatgacaaa caccaccttt 300  
agcacaacc aagaaacacc aaccaagaag tgaattttgc agcgagaaag cctgtagaat 360  
tcacccaat tccagtgtcc tatgctaact tgctccata tctactt 407

<210> 27470  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27470

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tcttcacgt tcttcaatct tcaacgggta agtacctcaa accaagcttt ntaattcatt 120  
ctatgtaccc gtggtagtcc accttttgtt ntatgtattt ttattctcat tgcatttac 180  
tttttatacc cnccttttgac gtgcttaagc catttattta agtcatttct cgcttaatct 240

naaaataaaa taaatttcca ccgatcgttt gaatagtaat atccgttag

289

<210> 27471

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27471

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tggtgtatca gaaaggcgta atagaacttt aatggatatg tttaggagta tgtagtcaa 120

ttagacttta cccgtatctt tgtggatgta tgccttgaaa actgccatgt atttgttgaa 180

cagggttcct agtaaggcag ttccaaagac atcttttgaa ctgtggacaa ataggacacc 240

tagtataagg cacctgcatg tttgggggtg tcaggcagaa ataagaattt acaatccgca 300

agataaataa ttggatgcaa gaacaatcaa tgaatatttc attggttatc cagaatagtc 360

aaaggggtat antgtttatt ggtctaata tagtatgaga attg 404

<210> 27472

<211> 421

<212> DNA

<213> Glycine max

<400> 27472

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gagggattac tagcgattgt atctcaataa atcacacaat gtcactcttc ggatggtttt 120

tgactttttg aaagtagttg ttaacttgtg ctagaagtca tacctctttt aatggttgtc 180

ttgaccagac atgaagagtc tataaaagca acgctacgtt ttgcatttca agtatcttga 240

acacttattc aatcaatcat ttacaaacct taaatctcta tgaacttctt cttcttcttt 300

gtaccaaaag ctttctgaag ttttctggat ttccaaacct tgaaaacgtg agctattcat 360

cttttcattc tcttctccct ttgcaaaaaa gaattcgcct aggactaacc acctgaattc 420

t 421

<210> 27473

<211> 386

<212> DNA

<213> Glycine max

<400> 27473

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atatgattat tcattccata tggctaagga ggttgaatgt gcgtgtgaaa taagtcatca 180  
actctattat gttctctctc tattcatact tttgctaattg gttttaaagt ttaattgttt 240  
gaccttcaat attttgatac ttaaaagata atagattoga gtataatttt atcttatatg 300  
actaataatt tttaatcaag agtcatctct tttgtgactt aaaataaata taacaataag 360  
agagatgact ctacgaaata tgaata 386

<210> 27474

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27474

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gaaacccatg ctgtgactgc cattcctata cagccaagtt ttccaccaac ccaacaatgt 180  
cattactcag gcaataacca accttctctt taccaccgc ccagttatcc acaaaggcct 240  
tccctaaaac aaccacaaag tctgtctacc gcacttcaa tgacgaacat cacctttagc 300  
acaatccana aacaccaacc aagaaatgaa ttttgacgc agatagcctg tagaattcac 360  
cccaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
cataaccc 428

<210> 27475

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27475

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gtttgagcta gtttaaagta atgttataga cttgtttgag atgagagttt actccaaaat 180  
taccgccattc tcattttcac ttctcaaacc ttgaaaatcc actaaattga ggggttttag 240  
atacctagat tttgaattgc cttggctga agcttgtttt tggtttagat atgatttata 300  
catgatttan gacttgtagg atccaatttg agaaaaattg gaggtgggta agatggattt 360  
cgaaatctgc caaattgtgc 380

<210> 27476  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27476

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acgagacatc ttgccaaaca aagtcagggt caccgataact cgctgtgct tttcttcca 120  
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttag agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctgtttatc tacggtggat 300  
gtacccgggt gagcgataca tgaagatctt aaaaggggtat acaaagaatc tatatcgctc 360  
ggaagcatct atngttgaga ggtacattgc 390

<210> 27477  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27477

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accgttgttt atttcttttag gaatttcac ataactaaa aagcacaaag gcacccctat 180  
aacactcgat ccagaaaaat ggataatgaa gagggcatgc aggaacagat gaaggccgat 240  
ctatctgcct taaaagatca aatggcttcc atctcagagg tcatgctaaa actctagaaa 300  
actatagagg ataaagccac gacaaccgcc tccagtacag ctagggaagc gaagccggtg 360



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404

<210> 27478  
<211> 377  
<212> DNA  
<213> Glycine max  
  
<400> 27478

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tgactcctca acacccaatg ttaccctaga aatggctctt tgttcacttt ggtcatttga 180  
ttttctctct tgtacaaccc cagctttctc ataagtccta aatgacattt caagctagga 240  
ttaactcact gtaacctcca aatgccacta aatccagatt tggccttcca actctcaaaa 300  
cctcactctt tttccactca taacaccata ttctcacttt ctaaccctaa gttaactcta 360  
cccttcatct ctaacag 377

<210> 27479  
<211> 400  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27479

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atgagaaata acttttcaaa aaatatatga tgtacaacta acctcgtaga atattgtcca 180  
aaaattttcc aaaattatta taaagtgata tgataatatt tggaaatttt gttttgaaaa 240  
tacggttgtg ggacaacaaa ggaacaataa ctatgaaaaa tagattcttg taatttgttt 300  
ggcttgagaa aaatatgaca tattattaag gtttaaggaaa ctccctatta aagtttataa 360  
aattcagagg tgcgtaagta ctttnttaaa atntaaaaat 400

<210> 27480  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27480

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atgccccccg gatgcattaa ccggaacca agttcatgat cgcgtaaagg acattgtaac 180  
tgtgtttggc aagtcccaga agaagacatc atctcccaac atgtggaaga agcgcttaat 240  
attctttgat cttccatact ggtctgatct atatgtgcgc cactgtctag atgttatgca 300  
tgtggagaaa aatgtgtgtg aatatttaat tggactctt cttacatta aaaggaagac 360  
aaaagatggg ttgaaatgtc gtcaagactt gggtgacatg ggaatacgag agcagtnnga 420  
tcccatatca caaagtctgc gaacatattt acccctat 458

<210> 27481  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 27481  
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gcgagtggag gaacgccccg gcatttatgc aacgagcata atgtaaacct ttacggtttt 180  
aaaagctcta tagttgggca taggcttttag agtttttctt tttgttaagg ctttgtgtct 240  
tttgtttttg aatttataat acaaggatct ttcttcatct gttcctacgt ctctacccat 300  
tctcattcat ttgcatgttc acttcttttt ctgaaacggc agatccgatg acgagtcctc 360  
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<210> 27482  
<211> 235  
<212> DNA  
<213> Glycine max

<400> 27482  
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attattaatg gcttaaggta tataaagggt atgtaatacg gctgcaattc tggatatagg 180

acccattaag ggatatgaat gtgtttcttaa aatttgggtg ttgaacggtt ttaaa 235

<210> 27483  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27483

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 atgatgaaat gaaataggga catgatataa caactgaatg tctgtttcag ttgctcgagt 180  
 agggagacat tgggttaattt tccaaatcaa ttgtgttaac ataataaacc tactcacgta 240  
 tagaaatatt ggggtttgcac ataagtacgt caatccgtga accgggttgt ttgcaatctg 300  
 accatggtgg tgaataacaa ttgatatttt tttaggtgga gccatgggtg gtgtttggng 360  
 gatataagcg gganaactat gagag 385

<210> 27484  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 27484

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 gcaaattgat atatagcgtc tgagaccaac tgggccacat ggatacttac ctgagttagg 180  
 atggtgtaga ctagctggca ctttggccgg gggaggtcga aattatggtc gctggggagg 240  
 atgttgctga gtagcaacat catccaaatc tgtgtgaggg tggatcatgct agtgacacatg 300  
 atccgcaccc atctccccac cacgctgtgg gcaaagtcct tccccggaac acacatgagc 360  
 tggtgatgg cctccttgtc aaaccccg 388

<210> 27485  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27485

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 gaattcagga ccaatttcaa gactcaaaag gaaaagttga agaccacttc aggattcagg 180  
 aggaggattg atttcaggat tcttgattca aggatcaagc ttc 223

<210> 27486  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27486  
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 aaaaagttat cttcgtttga attagctctg aggttcagaa ttcaatttcg agcgtctaga 120  
 tatattacgg gactcaatca gacatccgag caaaaagtta ttgtcgtttg aattagctca 180  
 gaacttcata attcaatttc gatcgtctca atatatttcg ggactcaatc agacatctga 240  
 gtaaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt tcaagcgtct 300  
 cgatctatta cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaattcgc 360  
 tgagagcttc aacattcaat ttagagcgtc tcgatatatt a 401

<210> 27487  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 27487  
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 gggtaggacc acttaacttt tcaactaaaat aagcaattgg atggccttct tgcataca 180  
 cagccccaat cccaacattg gaagcatcac actcaatttc aaaagatttt tgaaagtttg 240  
 gcaacacaag tatggggcat taagtaacct tt 272

<210> 27488  
 <211> 405

<212> DNA  
<213> Glycine max

<400> 27488

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aagtcttttaa atatctatat aattatgcaa agtcactatt tgtatagata ttttttttgc  180
taacaaaaaac aggtagactt gttgccgtcc tagctagatg aaactcataa aacgaccatt  240
ccatgaaaag gcaaaatttc ctaactgaaa ggagcaaaac gatatgaatt acctataccc  300
atggacatta aaggctataa gagatataag tataattatg atatgtaatg atgtgatagg  360
aagaaagaga tctagagaca tatctcatat gttaaataaa taagt                      405

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<210> 27489  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 27489

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agcttggttat tgaacaaggg aagctctcga gaaactcaaa tgatcataac ttatcacaca   60
gatgttcgat tcaggcgcgat aatattccga gacgctcgaa attgaacaac gaatgttggt  120
gagaaattca aatgggtcaga acttgtcaca cggatgtccg attaaggcgc ataatatatc  180
aagatgctcg aaactgaaca acgaatgctc ttgagaaatt caaatgggtca taacttgtca  240
cacggatgac tgattcaggg gcattatata tggagacgct tgaaattgaa caacgaatgc  300
tctcgagaaa ttcataaggt cataaactgt cacacggagg ttcgattcaa gtgcataata  360
tatcgagacg ctcgaaattg aacaacgaat gct                      393

```

<210> 27490  
<211> 210  
<212> DNA  
<213> Glycine max

<400> 27490

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gcgaagaggg tggaattcct agagcaattc ctttatgtta tcaaccataa aaggggaaag   60
ggtattatgg tagccgatgc tctttctcgg cgatcatgat tacttcctat gctggaacca  120
aatggatgg gcctggatgg ttggaaaacc tgtgttgaaa tggaggaacc tttgggggaa  180

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attttttaaaa atgggggaaaa attttccaaaa

210

<210> 27491

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27491

ttttattata tggattttcca ttccaattat atatatgaac atttctaggc ttcctaagggt 60

tatttatgac aacaaattag tgcattgggtc acaacatata gcagcaattc aaatttgata 120

aagttgtctt caccaattct ttcacgcaca ctcagatctt tcaagaagct agtttgattg 180

taacccaaaag ccacttactg gaggttatcc acttcatgaa aggcctcact gcctttgcat 240

gtcataggac atagagttac aactctcttt aaagctagaa aatgagatac tttcttctac 300

ggttcctgaa ttntcataat ttccaatagg gtttggttcc acgagagtat tagtattccc 360

ataatactgt gttgaaggat tgggtggacaa g 391

<210> 27492

<211> 181

<212> DNA

<213> Glycine max

<400> 27492

caataactcaa acccgacacg agagagctat atagttgtat tcttacactt tgtgtttctg 60

tcacgtagat accgccatac cgggacatat ttgtaggacc aacccttcct cattcacgta 120

cgcataataa ttgcagtcga aatcccatcc aaattaggtt aactggagcc tggaaactac 180

a 181

<210> 27493

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27493

agtctatcat tntttctgag tccctcatga caacccaaat tttacttcaa ttggtgttct 60

ttacagaact tgtcttttct gaatacactt aagaaaactc atcagtaggc ataaattcaa 120

aaggcttatg atttgtgtta agaaggtttg tcataattaa aacaacaagg gttttggact 180  
gaacaaattg ctcataaaat aagatgtgaa aaacaattat caaagagaca ttagagaaca 240  
ttcactagac agtaatagag agcacatatg aactaatcaa actaaatggt acaaatattg 300  
aaataataag ggactaaaca ataaatattc aaacttcac tcaccagtta aaattacctc 360  
ctacaaaaaa atcnaatttg gtgtttcatc gtgca 395

<210> 27494  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27494

gactctagac cctagattga ttggatcctc aaggtttgag aagggaaaat tagaatggga 60  
taattgtgga gcaaactctc atctcacaca agtctataac attaattctaa acttgctcaa 120  
acaggtttta caacgaaaac tccaccgaat caaaattaga ctctctcaaca cccaatttac 180  
cctagaaatg gctcttgccc tcactttggt aattcatttt cctactttgt acagcccaag 240  
ctttccaca gtcctaaatg acanttcaag ctatgattaa cttactttta cctccaatta 300  
ccactaaatc cagaattggc ttttcaaac cctaaagcat cacacttttc cactcatatc 360  
actacgttct cactttntaa ccctaggtta attctaccct tcattcttat ca 412

<210> 27495  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 27495

agcttcttct ccatcaccca cagccaccat tagccactac aaaccaccat tgttctccgt 60  
tgaaacccca caccgagagg aacccttcaa ccgaagcgga atcttccaac ttggcttgcg 120  
gtttcggttag agaacgaaac cctaacctga cctttccttt tccttcgagg taaccatggt 180  
tctatgcttg ttccttggtta gtttcagctt gtctttgcat cttttctaac tttggaacca 240  
ccattgcatg ttttacgctt cctttgaaaa accctagaga aagagacttt gtaaacgtta 300  
tcttttcatg aaatgcatgt tattttcgta acctacactg aaccccggtc acattgttgt 360

ggtcggaatt tccaaatgat gttcctttgt aaa

393

<210> 27496

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27496

nnnnaaaana gacctgttttg gttttntgag tngacncant tngcaccaac ctgcgaatgc 60  
acataggttag atatatagcg tggttgatcg ctgaatggac ataatccgcg cgatagaggc 120  
cgggtacctt gtggatgcaa accgagattg agcatcctga agaaatgcca gccatgagga 180  
tagctggaca gtaccatgca ttccattaaa cccagcttaa ggttgaacct ccctattaaa 240  
atgatatgac gggaatccct catgaatccg ggggtggtgga tattcgaaaa atgggggttc 300  
taaaaaatct accccgtggc gtcgaacct tcaaatctcg gttattgaac tttaatccgg 360  
ggcggtgctg tgtgtgagct tgatgctgta aacaaggctc cctctggttg cactggtggg 420  
aataatacct attggttcga ggcgaccaa tgtttggttg agtctcattc ttgcctgact 480  
ggtgtacaac ttcg 494

<210> 27497

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27497

agctttcttg agaaaacttc cttaagaagc ttctttgaga aaacttcctt gagaagatag 60  
agcttagcta cacacatccc tctaataact aagctcacct ccttgagaag ctttcttgaa 120  
aagattccta aagaagctag agcttagcta cacacacctc tctaatagct aagctcacct 180  
ccttgagatg agaagctaga acttagctac acaccccta taatagctaa gctcaccccc 240  
atgacaaaat acatgaaaat acaaaaaaag ttcttactac aaagactact caaaatgcct 300  
cataatacaa ggctaaaacc ctataccatt agaatggcca aaatacaagg cctanatgaa 360  
ggataaaaaa cctattctaa tatttacaaa ga 392

<210> 27498



<211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27498

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ggtanmncg ttttnngcnt ntttaatacc agnacccaaa tggtaanccc aaataccaaa 60
ttaatatgtt ttctattgta ctaacccatt ttaggtgccca ctgtcgcggc cactgccaaa 120
tggtggttat cctgccaaaag gaccactaag tggccggggtt tgggtcaatgg attaccaggc 180
caaacacctc ccttaaggga ataattatta ggtaaggggtt gtttccattc cattggcttt 240
gtaatacctc attgaccaca accagttttt aatgggttct catatggacc agggctatca 300
agggtcttga tgatgctcca cagcctaaat caaaggctcc tgctaggtgg attgtcgcca 360
tggtagctca ttacataaaa cttcaactat atatatttct tatgcgtctg acactagtag 420
ttattaatat ccaatttcat atgtattagt gtatagacan aaagactg 468
  
```

<210> 27499  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27499

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agcttgtatg attatgggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gtcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
ccccataaat cctcccaagc tttcccaaca tccaagtaat acaacattca aacagcacia 240
attatcacag ccaagcaaaa cagggcaaaag gtagaaaact ctgccaaaac accaaccaaa 300
atcacagctt ttctactta aagaccccag taacaattcc tttgttccaa ttcgttaacc 360
gttgatcga ctccaaaatt ntactggaag tctctcgtag ttaa 404
  
```

<210> 27500  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27500

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ctctctctct tcaattttcc gttttaagtt taagcctccc tcccccttct ctttaatttc 120  
cgtttttttc catttccagt tcagactttt agttttatca ataaaatttc attctctatt 180  
tgattaatgg aaggctaagt ccgcagcgtt gttttccctt gaggatcaag cacagtcttc 240  
tttgagggtc tattattact gttaaattct gtttatgttt tcctcttcac taattacttt 300  
gaanttgttg gctttaattc atgcatgctt agtgcttgat taattggctc tgcgcctaata 360  
ttacgttcat gccttatgga tcgttatgag ta 392

<210> 27501  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 27501  
tgctttataa tagactttat cttcataata aaaatcacat aagtgttttg agacataaaa 60  
cacatgtcat acatatgatt cgttcagata acggtcaatg tatgttgatg ctctcttttg 120  
ggtaatacac caacacacaa catacaaaca tgatgatgct aataaaattc ttaacattat 180  
ttgacaatta aatatgcacc gattagtagt acatatattcc ttctgggtata taaataaaac 240  
taatgatata cacaaatcgc ctacaattat attcattaat tataagaaca actaatcaac 300  
ctttggggcga tccataaatg ccttataaca atgaatttca attaccata aaccaataat 360  
catataatgt agtgtcgcaa cctacccttc ggcggga 397

<210> 27502  
<211> 226  
<212> DNA  
<213> Glycine max

<400> 27502  
atagacccat aaatgcgggg gacaacacca tgtgacatat tgtatgacct tatgctccat 60  
aggctctctg actcttatct tataactaa tgggtgaagt agccaacagt tggtaacata 120  
tccttccatc aatatatatg gagggctgca ggacctaagg accgattcgt ccatgcctgg 180  
aaatattgga aatccaacca ctttctggta atattggcta gttttt 226

<210> 27503  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27503

tgcttatgcg catgtttcct tacgaacggt cacttgcgga agacatccta ttaaccgaaa 60  
 aaatgcaccc atatacaatc aaggcagctt tgttacctag attatttaca cgtacttcca 120  
 aggtgtatatt gttacttaca tcacacacat ctcttgggt aaattcacat acatgcatac 180  
 tccaagcatt ttgggggtacc aaaaattgca catgtgcaca tcttggtatt tctaatacct 240  
 atacatacac aaacttcatg atgaatcttg actatctaca caataaagtg ctacatttca 300  
 tgcccttttt caagtttttg ctacctaaag ccgcatgcaa attcaagcat atnttccttt 360  
 gctgactaaa attgtattca aattatatat ata 393

<210> 27504  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<400> 27504

acaacacacg agcatggggg attatagaaa tatatgtgta tgcacatca tgttgattag 60  
 aaagacccaa cttttctacc tactactgca acttttactt acttggcatt taatagttat 120  
 tagcataaag gttgggttaa atttggttgg aat 153

<210> 27505  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 27505

ttttttctac ttatgtggca gggcgggttt ccttcacttt cttgtttcca acgcgagctc 60  
 tgaccactgt ttttccttcc cgcgatgctt cttttcatgt ccgcctgagt gggcttatat 120  
 cctaaaccat acttcccacg attcccttgg gtttttatca gactagttat gcgcgcattg 180  
 tctttgcta aacccatccc gggttcataa ccgttcccca acataactcg ggccatcatt 240  
 atcgccgct cggacagaca aggttgccca aagaaggagt ccacggagga aatgctgacc 300

acctcaaaag actggaaagc ggtttctaac gattcttctg cggcttccac ataaggcatg 360  
gaggatgggc agcttaccaa gatatcttcc tcgcctgaca c 401

<210> 27506  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27506

accgacgaaa ggatcaaagt gattcttaat agaggcaaat cagatcatca tactgggatt 60  
aatgccaaat aaataggcca atgaaagggg agaatgatgg acaagcccat gctatgattg 120  
ccattcctat acagccaagt ttcccaacat accaacaatg tcattactca accaattaac 180  
taaccttttt cttaccacc gccccattat cgacaaatgt catccctaaa tcaaccacat 240  
agtctgtcta ccacacttcc aatgacaaac atcaccttta gcacaaacca agagcaccaa 300  
ccaagaaatg aatnttcgag cgagaaagcc tgtagaaatt accccaattc cagtgtccta 360  
tgcttacttg ctcccatatc tac 383

<210> 27507  
<211> 256  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27507

agcttatcat ctgggtctgt ttcaagtttt caaatgtgaa atgtgaggag ctgtgttaag 60  
gactgcactc taatgcttct gaattctgag taaaggagct aaccttattt ccactccttt 120  
tgaacttacc tatgttgtga tttgcattta caatgtatgg ttaggtagta agatcaaact 180  
agtagtttta ttattctcag actangaatc tntttttttt tttgtgtgtg tgcgtgtggt 240  
tgattttcaa agcttt 256

<210> 27508  
<211> 228  
<212> DNA  
<213> Glycine max

<400> 27508

tgagaaacaa gaacttaatg tatcataatg tgatccgata tgacctctga cctataggat 60  
 ctgatttaaa ccgacatcga atatcctcta attatgtgta atcaatacta cccgtttata 120  
 ttaacaagca cttattgtgt actctgacac acacttttgc tcccattatc ctctatatat 180  
 ctctcatttt acactaatta taggatatta gtgtcaagac aaataaag 228

<210> 27509  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27509

atgtttatgg taaaagcttt ccttgatttg ttcgattgct gcgaaatcca taatggggat 60  
 tccggtctaa ttcttgcgaa cctgatcaaa ctgaagaatt gaaaatgaag atgataaaat 120  
 ggatcaacat atgaaccccc gcctgggaaa aatgaaaggg ctgaaatgaa aaaacattga 180  
 gttttgactt catggatgcg cctctttatc tgagatgaaa catattcatg tgcccttttg 240  
 atatcattnt nttttataat tcttttacta aataaatatt ttgccgtgtg aaccttaaaa 300  
 atctcttgat cgatgctcca cttcatacaa acatcatttt tattatttat aaattccac 360  
 aacg 364

<210> 27510  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27510

aaatggactt accttgaatt aatcccttg atagcccttt tgagccttgt ttccctttcc 60  
 ttgtnttgaa gctcactact agccttaagt gaaaaacat gatattacca tacccttaag 120  
 gaaatttgga gctttggaat ttgtttggga ataagtgtgg ggggtttttg tttattggac 180  
 aacttgtttt gttggctatg ctttatgatg cattttgggc catacttgat gtacattgta 240  
 tattggataa actgtggaca tgctgaatga catagtgttt ctaaagccta taaacaaaaa 300  
 a 301

<210> 27511

<211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27511

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cgcggaattgg gcctgtgatg cctttggaat cacggcaatn cagctcgncc ccgggacccct   60
tagagcgacc tgccgcttgc ttctttttat tgtaacaggt gccttcacct tctatgactc   120
gttcgacgct tgacacagag aactcacaca tcggcgtgtg gcccaagcgt gctctgaggc   180
gttctgattc aaattgggtc atgacggctt agctcggaaa caaacctgta ctaattatga   240
gactccttat gctgatagtt gcacttatag atctctttct ttttctctcc tttttctaac   300
atcaccccca tgagtctcct tattgagtgt ggcagtaatt actttttatc catgcccaatt   360
attacgtctt cctattacaa atgatagctg ggacgatcaa attgagactt gttcttctat   420
cctttttctt gcaaccactg aatcatctat atc                                     453
```

<210> 27512  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27512

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atgtcagctn ttctaaaact tcatcaattg ttgaattcat caacctagct ttccagaata   60
gagattgacg ggcttctacg gttacctaga aatggataga aggaagaatt cttggaatat   120
gattagaaca cttatagaag ataacccttt cctttgtgca tatttggtga ttataattat   180
ttgctcccaa tgataaaaaga tgggcttggt aatcacccat cgtggctaata atgggcttta   240
agagactata ttgattgcat ttcatgcaca tcaggatata atatacttgg cagacagaaa   300
gaaacatgat cattgaaaga aatagacaac gggtgtgact tgattgttga ctatgtcaac   360
ttaactatca tgc                                                         373
```

<210> 27513  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 27513

tatatgtcac tcttgacttg gattgctgga atgttgtatt catgtctgat gctattgcat 60  
 ttaatgatct aattttgtct aattcaccat tgaaaacaaa ctattcagct tcttatttta 120  
 ttcatttcat atgaccatac ttgctttcttc gctttcatca acaaccaatc tatacttagt 180  
 aaattactgc agagtgagat tttatttact tagttcaaga ttgcctaact tgagcttata 240  
 caacata 247

<210> 27514  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27514

agcttctggt gttcaatttc gagtgtcttg atatattatg cgcttgaatc tgacctccgt 60  
 gtgaaaactt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120  
 cgatatatta tacgcctgaa tcggacctcc gagtgaaacg ttatgaccat ttgaatttct 180  
 cgagagattc cgttgttcaa tttcaagcgt ctcgataact catgcgcctg aatcagaact 240  
 ctgtgtgaac acttatgacc attttgaatt ctcgagagct tcnnctgtgc aatttcgagc 300  
 gtcttcatat attatg 316

<210> 27515  
 <211> 165  
 <212> DNA  
 <213> Glycine max

<400> 27515

agacgatggg ggggggttga agttgagttt ggggatcacg ttctgcataa agttggatgt 60  
 tgctagagct tcggatcttt tgctccttgg atgtgatcct ccagtgatcc atggggatat 120  
 ctagccaagc actggtctga ttgataactca tgggggtggga agaata 165

<210> 27516  
 <211> 198  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27516

tttgatcaac gactactggc caaccctctc gctattcatg atgcacagag attcatcgac 60  
 tcatggaggc ttatatgtgg atactactggg gagttcaatg gaatgactgg actttctatg 120  
 ggacgttctt tacttttctt gnetgagcag tcccacttat actcacttca tttatttatt 180  
 ggacgcttaa cctgaaac 198

<210> 27517  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27517

agcttggttat agaaccaata acaacttgat gaagttttgt gttttacatg ttcaactctc 60  
 ttgagtgcaca ttctgtattga ttgttatatt ttgtgttgca tcttactctc tatcttttca 120  
 tatgtgcac atgcacatc atgtaggagt tagaagaaaa gctctaacga tagaatatct 180  
 cttctatagc taaaactctc tattntaatc gattacaggc tgattgtaat tgattacaca 240  
 agctgtttga agcttgtaaa agactgtctc gtatcgattt aatccattac ttacttatag 300  
 taatcgatta 310

<210> 27518  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <400> 27518

tgcttggttg taaactttat gctcgggta acctggcaac ccaactagcc atgaatataa 60  
 attcacctgt acacatcatg gttttgctct ctatcgccac caacagacct tgcocttctgt 120  
 gcaacaatct gaacaattga acagcctgaa gcttatgctg cataacatct accaatatga 180  
 tctctctcga atcttaggag ccataatccg ccacaacaga acaaatatga ccttctccgc 240  
 aataggtgca atccccggtg gag 263

<210> 27519  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations



<400> 27519

agcgcgangt gangccacgt tgattacact tgaatnanc acnggcgaat nccagcgcg 60  
cacctgcgga tcctctacag tcgacctagc tgctattctt acttgtttta acgaccatgc 120  
gagagggaga ccagcatgct gtctatcata gacaagtacc cacatcaatt atgcataccc 180  
ccagcccacg atcatataat ctccgatgac tatgcccatt tatacgcgga tccctaggct 240  
cgatgagtga cgacctacat tttatgcaca cgagggcact atttaccata tgatctgatg 300  
gccctgacct gatgcggggg acaagaactt ctccgagtgt tacccaaggc caatgccata 360  
gggtgataact actcagcctc ggaggagatt acgggctcct ggggtgtctgc gctctgatca 420  
cttatggtcg cgtcatagaa atcgtaggag cttgttcggt ccatacctga cacatatact 480  
ctatatcccg 490

<210> 27520

<211> 221

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27520

agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtaccgataa tgtgtctacc 60  
atcacgaata tcgcctccct ttttgcacat gttctgtagt tgcacccat ccggaaccat 120  
atcagaatag tactgatact gctaacgaa ggcaaccatt aggtccttnc aagtatggac 180  
tccggaaagt tccaagttag tgtaccacgt aacagctacc c 221

<210> 27521

<211> 340

<212> DNA

<213> Glycine max

<400> 27521

agcttctcta aatacttggt ttatcgatta cgaatagaag gtcacgatt aaaactgaga 60  
gttgtgcatt gaagatgttt cttacctaaag aaacaatctt cctacttcta catggggatg 120  
catgatatac acataggtag atttaaactt aaaaacaaaa atttatacaa ataccaccga 180  
ataatgagtt acgcatgtaa aatgacaaaa ctcttcaaag tttgatcttc atgttacttt 240  
ccctatctct aacagaattg ggttttgaaa ctttttttagt gggtctttga aaacaaaaga 300

tttctgacta tagtttacia taagtgagtt cagaatgaaa

340

<210> 27522  
<211> 484  
<212> DNA  
<213> Glycine max  
  
<400> 27522

ccgagtgagc actcgacaca ttgtgataca ctggaaccgc gatccttaag tcacctgcga 60  
tgcagccatt ttatataatt tgatgagttt ttaacaaacg aaaactgctg taagttgtag 120  
tacaatctaa ctaccggaat aaatatggac cccatagaaa atttagctac ttttacctaa 180  
atatgcttgt gogaattcga agaagatgtg actgcgacat ccctaaacga tcgaatgcaa 240  
tgattatttt ttgctttttc cttgatgtaa cctctatatc atttatggcg tgtctaaatt 300  
ccataataaa attcaatgtg ttatttcaac tggcccaaga taatttattt ttaattgttt 360  
gaccttcaga ccttacgcat acttagaagg gtccgacttc aattttcttg gaatttctgc 420  
cgcttctctt acgcattatc tgatcggaac cacggaactg aaataatttt ttcgggtctt 480  
gtcc 484

<210> 27523  
<211> 534  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27523

atacttcctt actcccatc tcacgcactc tctaactctn aaaaaannna aaaaagcgcg 60  
ggtgagcatg tgatacatcg aaaacacgng aannccan cccccggacc tctaagccga 120  
cagcagcttg caactcgttg ttccagtttg aggagcaacc ccctggatgg atcctaaaat 180  
caaccaattc ttctagtatc acgtgacccc ggagcatgaa ccgctgacga ttgccttctt 240  
ctacatggat ggtcctgctc tggcatgggt tcaactggat gacgagcaac agacacgtta 300  
tagtcagcc actcttcctt taagccctga aaaccagatt cacgccttca ccattgaaga 360  
ttctatggca cattatttaa ataaccaga cagaaacatt taacgcttac ttctcggagt 420  
ttaacgacct ggcaaactgc attggtgggt tcgcatctcc ctttctctg aagtagactc 480

gctcgtgact attccccgaa tacacgcaca caaagtcaag tgcctcatc ttcg 534

<210> 27524  
<211> 254  
<212> DNA  
<213> Glycine max

<400> 27524

tcttcttggt ttaaaattag taactaatgt cagtaaaggt agaaattacg tgggaataat 60  
ttaggttaat taatgggtgat ttacagtctc tagaattaga aaaggggtca ataagttata 120  
acacgttaaa gtggacgaca tttcatata tgactatata actagtctaa caatccaatt 180  
ttaatttaat taactgggtga ctaattcaag cgtctaatta tacgatgtac aataatctaa 240  
ataagttaga ggtg 254

<210> 27525  
<211> 185  
<212> DNA  
<213> Glycine max

<400> 27525

ggcaattcag ctgcgacccg ggatacttaa gtcacctgca gttttttctt tttattcggc 60  
ctgacaaggg attgaggggtg taattattga tgctgcaaca tagaacacaa atgtcatgat 120  
tgactagaga aacatatttc tatgcatcag cttatttgct tcagagaccc aacatatcta 180  
cctac 185

<210> 27526  
<211> 263  
<212> DNA  
<213> Glycine max

<400> 27526

agcttctcta tatattatgc gcctgaatct gatcttcgtg tgaaaagcta tgaccatttg 60  
aatttctoga gagcttccgt tgttcaattt cgagcgtctc gatattttat gcgcctgaat 120  
cgggcattcg agtgaaaagt tatgaccatt tgaatttctc gagagcttcc gctgatccat 180  
taccagggtc tcgattatta tgtgccgaaa ttggaatccc attaaatgta tgacatttga 240  
atatttgaag cttcgttgta aat 263

<210> 27527  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 27527

agcttaactt tcagcggttat actattcatc aaaacaaaaa actacacaac gcaaattaaa 60  
 taatacatta ttcaacagca gggcaagacg aaaatttggt ccaaccactt gtgcattttt 120  
 ataattataa taataaccct aatcagtggtg aagactaaaa ctagtacagt aacgtaaatt 180  
 ccttttgtca tccgaatccc acagggttat catatctaata atg 224

<210> 27528  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 27528

aagactttgc ctttggatgtt ttgatgatgc catatgataa tgatgttttg atgccttatg 60  
 aaaattcact tttcaagttt aattcaagac aaaaattcca gaatacaaga taccacatcc 120  
 agaagatctc tagtggtttta agaggggaat ttcaaattga aacaacaaaa ggtttggcca 180  
 agaaatttaa accaaaatgt ctttttcaag agatttactc tctggtaatc gattaccaga 240  
 ggatgtaatt gattaccagt ggccaaaatg atttataaca gctattagaa aattggatct 300  
 aaattttaca ctgtgtaatc gattacacat ggatgggtat cgattacagt agttataaac 360  
 gttt 364

<210> 27529  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 27529

agcctgattt atattacgtg taacgctaca gaagctgcta ccgctgacca actaaacacc 60  
 tgagccccct tagatgtaat gaatgagttt atcgcaatta ggggtacaat gaacatgtgc 120  
 ttggatcttt acagaattaa aatgagaatt attgtgggat atttattgaa ttataattct 180  
 tcctttacca atattaatac gattttggtg tatttgacgg atccattgat attctaattgt 240

gaattgggtg agtaaattga atgatcttga tgtcttaata attttggcct atgaatttga 300  
tatgaatata tgaaa 315

<210> 27530  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27530

cactngtttt gaatacgcaa ggtttgagtt tggctcatta cctattatag gctatttttc 60  
aaagctcgac atgggttaca taaaaaccta acttggccta ccagcatatt taaaagcttg 120  
cttacagacg cctttgatca cataactatt ttaaaaccta ctgatatact cacctaaaaa 180  
aaacttatta caatttcgat aacgaatgta caatcccaaa ataattgata aaccaaata 240  
tattgattca agtcgtttta cacaagttt atccaatgga atcaaaacag agagcctatt 300  
taaaaaatgc tggatataca tgattattta atatagccaa ccaaatttta actgctgaaa 360  
tgtttacaaa aatctttct 379

<210> 27531  
<211> 323  
<212> DNA  
<213> Glycine max  
  
<400> 27531

agctttatgt tacatataaa aacgagtcta tattacctat tctattatgt ataaccaaaa 60  
aatattatcc gctaacatt taatacttta tttatctgta aattacattc aatttatttg 120  
catcaacgat tttacatgc atgctatcca cgaatatgat gcttggtcca ttggaactct 180  
caacatatat tttacattac aatcgatgga atttaattca gctaattgaa ccacgacata 240  
taacatatta ctaacttcta atatctgatt ttattcttac atgtaaaaaa catatttcat 300  
atgatattac attgattcaa atg 323

<210> 27532  
<211> 327  
<212> DNA  
<213> Glycine max  
  
<400> 27532

gtaggacttg gcaactgcct tcattaagga gtaccaatac aatacggaca tggctcccga 60  
tcggaaccaa cttagggatt gattaaccaa aaccttaatc ctttaaggat attccccaaa 120  
atgaagaatc tcacgccccaa ttttccccct taccgaagga gataatccat ttggtaatatc 180  
gtaccacttc tatataaaac tatagctcat ccccttaact tgcgatctct cttccggaaa 240  
gattaatctg cttcaaagca attaaaatct gcataatggcc cacacataaa accccatatg 300  
gccagaaaa gaagaatccc cccccct 327

<210> 27533  
<211> 566  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27533

agacgtcca caacgcatan taggaccatc actcaacacg ctgagccgag attatnttaa 60  
anaataanaa nnnaaaaaaaa aaaagcgcgga nagttgaagc cctgtgaact aactggcgga 120  
aacnaactcg gnacccgggg aaaccctana ggcgacctga aagcatgcaa gccttttcca 180  
gcggttgct cactcaaaa catgcatcat accaccacc ttagggacc ggctccaaca 240  
aaccgaactt gggcaccaac aaagcacaag gatttaagcc cctgcgaacc aaaccctcat 300  
ccaacaacat cttgacctga agaataaact caaacccaac acgtgtggca atgctagcaa 360  
gtgcctttct acaaaagaca aaaagtggag gcaggacaca aaggaaagcc cttaaagtct 420  
tgccctcact gcaaaagaaa cccctctta actaactctn gaggagacac taacctcta 480  
cactactctt aaccaataac ggttgccctc tattggacga aaattccttc ctagaatctc 540  
cccgtatgct ctcaacttca caaaaa 566

<210> 27534  
<211> 234  
<212> DNA  
<213> Glycine max  
<400> 27534

agctttgttc gtaaaagttt cttaaaaccg ttttaaggtc caacgcctta aacggctctc 60  
tttgctttta tcggctaaca tggaccgctc aaaagcataa aatcaacca taactttacc 120

gcttttgcaa gaactacgta gatctgaatt tcttatcgca attgaggatg cctatgagcc 180  
aaagccccgc ttttgtcgac caccccaaga aatccttaat gatccaacac ctta 234

<210> 27535  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27535

acggattagc ctgatactga ancactcgac ccgggatctt aagcactgag catgcagctt 60  
tttctacttc caaattagca tcaacccttc ataaggattt aagtctaaag gaatgaaatg 120  
ggtaatcggg caactctcct accaagttat acatcatgaa ctgctcaacg gattacacct 180  
aaattcacga ataaattgat ctaacaccaa ttacctaaag gcttttgtac tctgcattgc 240  
tttctttacc acccaaactt tatagtctaa tgacatcagc tgataatatt tactcaaaca 300  
taatcaattg cttcacctaa actcttttca tataacctat tactttac 348

<210> 27536  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27536

tattcaagct tgtttcaact gtgctcgtaa caagaaggac acccaagaca aaaacacgaa 60  
tctcatagga agcatccttg gttatttcac aagtacataa actgtctctt ttcattgtat 120  
ataaacttgc aacttgggat actcataaac tgcgacgttg actttatattt actttcataa 180  
cttggttgttc cttgtttcgg tgtaaaatan gaagcacgct aaataaagag agagaaaaca 240  
aaaacactca aattgcgtta ttcattggaag agactacaga gcgtgttgct cttcaagaga 300  
gaatgaggat gatgtcttcc gatattgtgg aacaggggtca tagcagtgaag agcaacaagc 360  
aaatactgag gtcaacact 379

<210> 27537  
<211> 215  
<212> DNA  
<213> Glycine max

<400> 27537

tcaagcttgt tttgcaaagc taatgttgga ggagagacac ccgtttagat ggctgaggcc 60  
ctaacggaat gaggcgacta atccgctcta tacttagtca tgaactgggt gtacgtgggtg 120  
gacaacttac atgaaacgac gttgttgaaa ctcatagagg ccgcctccag tgtagtccct 180  
caacccaact tcatggtagg catcatccaa gaatc 215

<210> 27538

<211> 211

<212> DNA

<213> Glycine max

<400> 27538

tctaagctct tttattcatt ctatgtaccc ggagtgggcc acattgtgtt tcgtgcattt 60  
ttattctcgg tttgtctact ttctataccc cctgttgacc gtgctaagcc attttactta 120  
agtcgtttct cgctcaactt aaaagtataa taattttcac cgaacgtctg aattgtatta 180  
tccattaact tcgggttaaaa taaatttcga c 211

<210> 27539

<211> 201

<212> DNA

<213> Glycine max

<400> 27539

agctttgttt atggcattca cagattcacc ttttagaatt cactgtacgg tggttccact 60  
tcttgcaaag ggtccttctt gtgcttttca aataaattcc tagggatact actttgggtg 120  
ttctttttat cottacactt ttgaaagttc ctacaagcta atgttggtgt aacctgatgc 180  
aatcctaccc ccaacggtat t 201

<210> 27540

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27540

tcaagcttgt attgaagttt tttaagaaag cttctcaagg aagctaccta ttctataaat 60  
agaagcatgt gtaacacttg ttgtaactct gatgaatgag agtcttgtga gacacaactc 120



atacttcaac ttctctccct ntttcttccct tcaatttcgt gctccccact ttctctttct 180  
 ctccctctat cttttctctcc attgaagcat cctctccaag cttattatcc caggctcatc 240  
 ttggtggtga agctccttct tccatgggett attccctatt gaatggcgcc ttctctcacc 300  
 tc 302

<210> 27541  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 27541

aaatataggg aatcactgga ccgggatctt aagctactga gcttctctgt ttcctgaaaa 60  
 agcttgaccg ctgatgacaa ctccaatgta tgttctataa ttccttggtc atcatatcgg 120  
 ctacatttga gggagtatctt ttttacctac acccgttgat tggttcgaga aatggcaacc 180  
 caatgaacaa taatttggct tctcagttg atattcg 217

<210> 27542  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27542

tcaagcttat catcttgctt ttgcttgat ttttatgact agtctcacia ctgttgatgt 60  
 cgatattcgt atgttcttgc acgcatcaa tgtaattngc aatataaaca actgttggtc 120  
 atgctgagtg aaccttagat tcccgtttga gactgaatgc aatgattctt gtagacattt 180  
 tgcattagtc attgtattta gtcttgaatt atccgtttgg atagtttggg gagactagta 240  
 tttttatggt agattcattc gttaacgtta ttattatttt gattaatttg atcaaattnt 300  
 ggtacaaggc atctcacgtt gttctctgag tgcatacttg attatcgaga cattaatttc 360  
 atcgatgtca tgcgtgtac 380

<210> 27543  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 27543

tcctantttac tctctatagc gctcttttcgt ccnctcgcgt actcgatcaa agttgactct 60  
acacantttcc accannccac anaccgcgag cncgttgana gccttgtgtt aacactgtta 120  
attacagctc gggacccgga gattctctac agtcgacctg taagcatgca agcctaactc 180  
tgatgacttt cccaacatan ccacagagta tggaatcaga agcatagcaa ctgggtccgct 240  
ttctaaaaat ggagaaaaga aagcgtaatt ggggcagttc ccaaattcac cttgttcgca 300  
gnagtggaaa aatatgttga tgtctaaaac ctggaaggga aaaacatggt ataataagga 360  
aacgcttgat cataaattat agacccatct tcattttatg gctttaaaca cttcaaaaaa 420  
gtactttgggt gtatccacat cctttataac attttgtaaa gattaccatt gataaattcc 480  
cgagggagga atactcagtc cttttctctc tatgaggtgc ttttgccacc aatgcattac 540  
ctccattttg atactgacca atattttg 568

<210> 27544  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27544

agcttgattt taggggggtct gatgaccttg ctggggacaa catgcacccc gtataaccga 60  
cagaggtccg taatcagagt tggcaactcc aagaccctgt tggacttctc tgggtacact 120  
gggtgtcttg cgggcgcgat ccctgcaaac aataggtgac atcataaatc agttgagcga 180  
aatgcatact tacctatgtc atgatggcat gaccttgctg ggggggacga gcaccctgta 240  
ngtctgacag aggcccgtaa ccagagctgg aaacccagc accctgttgg actt 294

<210> 27545  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 27545

tcagcttatt atgcatctac tgctttaaac aaaagagtgc tccactacgc aacttttgggt 60  
ttcaacttat agttggctac gtcttatgta aactcaacc atgtatgttt tggagcattc 120

cagttaataa aaaatgtttc tatacatatg tctgttggtt aaaaaaatta ttaagaaaag 180  
 agtatgacca tagttatcaa ctgacataca gaaaaaaaaa tggttcattg gtggatcaat 240  
 tctataatct tataatatta taataagcga gtatttaaaa taggactaaa ccttagcgta 300  
 tgat 304

<210> 27546  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 27546

agcttgtgtg attcgtgaaa ttccataatg cggcggaaat cgaaaagaga tggtcttgcg 60  
 caatccatga gtttccgtaa cttcttcgaa agctaaaaaa gagtaaatac ataatccgta 120  
 aggattcgta accttgcgga agggaaatag gtatcgttac gaaattcata aagtttcgta 180  
 acgttacgga aaaagaatta caaaaaaaaa atacgaaggg ggtgcattta gtaaacaggg 240  
 ggggtgtaa at agcaatctgg ccacttgagg cctcc 276

<210> 27547  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 27547

agcttgtttg tggagcttct atggagggtg gatctttgag cttcaatgag gtcctttaat 60  
 ggtggttttc caccatggag atgcaccgga agacaaatga taaaacggga gaggaggcgc 120  
 catccactat ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 aaaagcttgg aatgatgctt cactggatga taagaacgag ggagagaaag agagacgggg 240  
 gagcacgaaa ttgtaggaag aaaaaaaggg agagaagttg aactttgagt tgtgtctcac 300  
 aagactctca ttcaccaag ttacaacaag tgttacacat gcttctatta 350

<210> 27548  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 27548

agcttgtcta ctgagtttaa ttttcaatag tttagtgttg ttatatgtta gtgtttaatt 60  
 tgtcgtttga gtggaaattg tgaaataaga tagtggagtg tgtggcgaga tagtggagtc 120  
 tgctagccac atcttcaata ctatcagtgt gttttgtatg tgtctttcca aagtttgtct 180  
 gatagtgaca tttatgtgtt ttttggtatg caataaagtt cccgtggata ctcatatttc 240  
 atgaagtaca tatataattc ctttttttgg agaggatggg ccaatagttt tttgtgtaac 300  
 acaatctg 308

<210> 27549  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 27549

tcttttagagc cctcaacggt gttacatatg gtctccattt tctaaacaaa cttctcaaga 60  
 ttttgtcaat atgatcctaa gtatcataag ttctacctag agaccttaat tcatttagaa 120  
 tggtttggaa acatctttac ataacttgta tgtcttcgcc ttctccata gtaatgagtt 180  
 catacttatg tgtgaggaga cttagtttgg tcctatttac ctatgacatt acctcatatg 240  
 atatggctaa aagtgtccac attttcttgg tactcttaaa gctatgaact ttgtttagt 300  
 cttattc 307

<210> 27550  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27550

agctntatta gtgcgggtct gggagacgat tgtcaagtgt tcgcgatatg tgaagatgat 60  
 gttccaagta cttcggattt gggccgacca tgcctcctg atttccagct aggaaattgg 120  
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacgggttta 180  
 aaagctctat agttgggcct aagctttaga gttgtcattt tgtaaacgct ttgtgtcttt 240  
 ggattttgaa tttataatac aatgatcttt cttcatctgt tcctgggtct taccattgt 300  
 cattcattcg catgtttac 319

<210> 27551  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 27551

tgtctcgata tactaccgga ctcaataaga cattccagta aaaattattg gcgtttgaat 60  
 tagctaccaa cctccccttt caatttggag gctctaaata tattacggga ctcaatcgaa 120  
 catccgagga acaaggtatt ggcgattgaa tttgctacca ttttccgttc tcaatttggg 180  
 atgcctggaa atattacagg actcaattat acattcgagt aaaaagttat tgtctattaa 240  
 atttgac 247

<210> 27552  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 27552

ttgttagcct tttatatggg tgaaaggctg accttactg tttctacat catattccaa 60  
 cttgtacaaa tacataataa agtcatctcg actcaatgaa agccatataa gtgtcatacc 120  
 atgaacatag aacctatatt ctaatgtcac atcctatcat agcgtggtgt tcccgtgttc 180  
 tctagcatga tgttcttcat agtcatccac ctattcatct gctccccoga acacaaatgt 240  
 caagatcatc acaggatcca tacacaaac 269

<210> 27553  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 27553

ataaagatat tacctttccc actttgttag tatcacagag attacacaac atacaaatga 60  
 attgtttacat agaatgatat agccgagtta aataatctga caaaaataac ttgaaaacat 120  
 tttcaagtaa gtcacaaaaa aggaggtggc aataattcaa catgggcttt gaaaacttaa 180  
 atcatggaca ttactgccg aaagagttat ataaagctat cgccatgaac ttgtgaacat 240  
 acacaatcac tggcaaaaaca aaacacttat cattttacat g 281

<210> 27554  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 27554

taagcttttc ttatatgaat ggtgctcagc taaatcaaatt ccagttttaa tcgcaagaat 60  
 atccgcttat ccagcagatt acatgctcag ccccatggcc ctcaattctg actgcaatga 120  
 atagcgcttg gcgacatatg gtcgcgctta gccaaaggaa gccatcgctc agcgatcagt 180  
 ttgtcgctta gcagaattca actcgaattg attttggtt agctaaacct tggctagctt 240  
 agcggaaata accttatgtg tcaaagtggg gtgctaagag cttaaactcg tggcttagtg 300  
 catgagtgc tatgcg 316

<210> 27555  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27555

agcttattgt cgnttgaatt tgatcaaagc ttctgtattc aattttgagc ctctctattt 60  
 ataaaggcac tcaattatac atttgagtaa aaagttattg tcatttgaat tttctagggg 120  
 cttatgtttt taatttcaag catctcgata tattacggga ctcatcgga catccaagta 180  
 aaaagatatg gccatttgaa tttccttgga tcatacagtt ttaatttcag gcgtttcaat 240  
 attttacggg actcaatcag acatccgagt aacaaattat tgccgtttga atttactggg 300  
 agcttncatt ttntaattcg agcgtctcag tatatgacgg gattcaatc 349

<210> 27556  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 27556

agcttggttct attgtcaatg aggactttgg ccataacatg gtccatgcac tcgaatgaga 60  
 cgtgtagagc cctattgtgc ccccgccctt cggcaggaat cttctcctcc gtgaaggtaa 120  
 gatagctatt ggcgggactg atgctaacta ttcccttgaa acctttcacg gagatgtctt 180

gggccacctg ggcctcatTT atcactttga ccaacaatgc ccggtgagggc tcagagctca 240  
 tgagcaattg taagagggag accctacctg gggTattggT aagctgttat attatcttgc 300  
 attctctttg ttggattata cg 322

<210> 27557  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27557

cgctttcaag cttgttctaa tcanatcact cctacatttc atctctagca tgcattgttt 60  
 ctttaccacac tcttcacgtt tggTTTTTTT gggaaaaaca ccataactaa acgcgccaca 120  
 aggcacccct atcgcaccat atccaaatct ataacgatgg gtgatcaaga agagacacac 180  
 gaatagatga aagccgacat gtcggctctg aaagaacaaa tggccttcat gatggaggcc 240  
 atgttaagta tgaagcagct catatagaag aacgcggcca ccgct 285

<210> 27558  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27558

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 gaacgctctt tagagacatg tgtattcttt gatataattat aagatgccta ccagccctta 180  
 tgataacata cgtgcatcac gcatcatctt gtgtgagtaa ggaacaagcc ctaaagttag 240  
 aaaaatgctt catagcgcac aactctttgt tgtaaccgat taccacatga ttagacatca 300  
 caggatttac atcggacaat aatgacactc tacattattt gtggaccggg ttcgaatatt 360  
 actgaacgtg aacttanaag agtccacggc gccctcatt gacattgcaa aatacaatgt 420  
 ttctacatcg ggctctacta ccaccgatga gaaattatac cttttagtcg aagcgaacg 479

<210> 27559  
 <211> 285  
 <212> DNA

<213> Glycine max

<400> 27559

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tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
atataccttaa ggaatttttg agctttggaa ttgttatggg aataaatgtg ggggggttttt 180  
gtttcattgg acaacttggg ttgttggcta tgcttcatga tgtatttttg gccatacttg 240  
atgtacattg tatattgggt aaatgttggg catgctgaat gaaat 285

<210> 27560

<211> 292

<212> DNA

<213> Glycine max

<400> 27560

gcgaatcgac aacgatttta ccacaaatct tccgtgttac aaatcctgtc tcatttttgt 60  
caatatcact aaaattacaa ctatgctctt taaaaaagaa ttctaagcct gattttgaag 120  
acaatacttt ggagaactgt tattgacatc cctaattcaa agaccatgat tgaaaatcat 180  
cttttgaagt caagtgttat ggctcttata ctctgtgcct ttctttgcat ctacttcgt 240  
ctcaatagct tgcacccctc tcagagtctc tgtatggcct ctctcactca cg 292

<210> 27561

<211> 370

<212> DNA

<213> Glycine max

<400> 27561

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agctcacgta tcgataacca gcccgttcca atgccaaaga tcagatccaa ctgttaagag 180  
tccaatgcct tctccaaact gctttcagca tccactgccg tagctcggcc atctaccagc 240  
actgatatgc tttgaacaca aagcaaaaac gcaaccttcc cacggtttagc agccctccga 300  
agcgcaaaat ctgctcagcg ttcttgcccc acgcacaggc ttaaagagga cctcgttgct 360  
taaaagaccc 370



<210> 27562  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27562  
  
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 attatgtccc cgaatcggac atttgtgtga aaacttatga ccattcgaat ttctcgagag 120  
 ctatcgttgt tcaatttcga gtgtctggat gagttatgtc cccgaatcgg acattcgtgt 180  
 ggaaagatat gaccattcaa atttgtccag aggggtccgtt gatcaatttc gtgcgtctcn 240  
 atatattatg tccccaaatc gaacatccat gtgaaatgtt atgatcattc gaatttttcg 300  
 agagcttccg ttgtgcaatt ccgagcgttt agatgagcta tgtccccgaa tcgacat 357

<210> 27563  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27563  
  
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 ggagaaatga aattgtggct cgcaccacta tcaatcaaca ccaataaatc cacattctgt 120  
 atcgccctt caaccttcat ggtgtgagac tcgccccatgc ttccaatac ccccatcagt 180  
 ttacattcca cctccacttc ttcttcactt ttcaccgtca catccttcat acttacaatt 240  
 tcccc 245

<210> 27564  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27564  
  
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 caaattcagc ataatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120  
 atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180

gtttgtgata tttctacaca cagatataaa ggaacaatta caaatatttg ttatgttcca 240  
 tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300  
 cctcacaat acaatntcaa agaatggaa taagagaaaa acaaaacata gaacanaata 360  
 ccacgtctaa atg 373

<210> 27565  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27565

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 ctatcacaat catgcattca atccaaaatc aattcataac atcaattttc acaaaaagat 180  
 aaaagtgttt tactgcataa tcatcaaagt caagttaa ac tgttccatat gcttcagaac 240  
 aagcatacca actatccaca aaanaaataa gtatataaac ataatcaca atcactaaaa 300  
 acaatgtact gaaactaata tagttataat cattaatcca aaagcaaat catcacgata 360  
 ttanaagtcc tgagatagat cttgtgtatc ctgagtctg 399

<210> 27566  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27566

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 gtggtcaact tttccatgga aaatctgata ttaatgggaa tgaagtgagc aaacttagtc 180  
 aatctatcaa caataacca tataaaatct aaacctctca gggttctagg tagtcctacc 240  
 acaaaatcca tggaaatgct gtccacttn cactatggta tctctaacgc ttgtaactta 300  
 cctgaaagtc tctgatgttc tate 324

<210> 27567

<211> 281  
 <212> DNA  
 <213> Glycine max

<400> 27567

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 tggggaactt tctggaaggc ccaagtgggc ctggttgata tttgcacccc ctgtgtacta 120  
 aatacaccac ttgctttttt tgctgttatt tttccgtaac gttatggaat tttacgaatt 180  
 acgtaacgat acttggtttt tttccgtaat gtcacgaaac cttatggatt atgtaatcat 240  
 cccttctttg gcttccggga tggtacagaa ctttacagat t 281

<210> 27568  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 27568

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 acggagctat gtgcacttct gctgtgaact actccagact aaggacgttt gtcttgatca 120  
 ataagtgcc catggactga agcagcatcg ctactgttac tgcacccctg tgagtgtatc 180  
 agaccatcag ataaaacgct atgagccaag aagtcataa tgcactctcc caagcaatag 240  
 cctaagggtg ctacatgtgg tgaattgtat gcatcagagg tatggcgtgt atgtatgaca 300  
 caaatgtgt atgaaagcat aggggcagga tagact 336

<210> 27569  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 27569

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 actataagat tgtaccaaca atgtgtgaat gtgcgtgagt ataaagagag acaactatca 120  
 agttaaaagc gttgggaaga gtgactacta aaatactctt gctatataaa acgtgtgctt 180  
 gtctatttaa cgtgatacta gagttcttac actaagaaat tactcatacc atgattcctc 240  
 acatgaagga acctaactct ctatagcctt tgttcttgat tactcaacaa acttgatcta 300

aatgagttgc actaagtcta tagtgtaaaa tggactagat cactacactc catttgtaga 360  
 catacagatt actagcttgc tctatcaagt gctaaggatg taaagcat 408

<210> 27570  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27570

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 aaagcantta tcatcaacag agatgtttac tatgctgcct ctataattgt ggtgcgccct 120  
 acccatgaga tccttggttac cctacagaat tcacatggag aacctgccct agtgtcaagg 180  
 atggcgccat gcgagcatat tctacagact tcccagtag cactgctcaa gtcacatagt 240  
 gattgccgaa ctatggacta agctttagag atctactctt gaatgataat gaagcgcagc 300  
 tctgatgac tatcac 316

<210> 27571  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 27571

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 caaggctcaa gatatgttcg ccaactgatat ctcatcataa catgatgcc ccttttagtgt 120  
 gactgactta tcacgtcatt tacatgacct gtacgcatat gagcgaatag cccggacatg 180  
 ccgttaacac ctgttattgt tgtatgcgta cgcttcatat aattaatcga tctagtatgt 240  
 aatgaagctt gacttggacc ttatcttgac aagcttacac tcacaattct cacttgcccta 300  
 cgtgcgtgaa ctactgtgg agcatgcttc ctgatgcaca ttatcgtcac tatgctacaa 360  
 cttgtgactc ctggacatat agatgatg 388

<210> 27572  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 27572

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 aagaccttgg agaataggct agaagagggt cgcctctgta ggggtataaac actggccagc 120  
 gaggcgcctt gaccttggag agcctatgat actaaactta gataggcctt tggtttggtg 180  
 aaccttagtg aaagcggcca gtgacgtgtc cgacctggat tttggtgaga ttcaccaagg 240  
 gcagatgtta gtcgtcttat acgactaact tttgtataaa aaacttttac agaatgtata 300  
 taaatcccca atttatagtt cttttgtagg attgtaaata aattttgctt tgttttgatc 360  
 tatgttcatt acaagcctct ttatatggaa ttaatgttac attctc 406

<210> 27573  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 27573  
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 ctagectacc agcataagaa tgtgacatat tagaaaaaat gtatgctgct aaagccagcg 120  
 cctatatatc atgacctatc tatctgcgaa tgctaactct ttgagatgag agagtagaac 180  
 caccatacgc attctatata ctaactcaga aaatcgtcgc gccaacctgg cttgaggaag 240  
 catatagcgg tctaactaca cagactgcgc aaaatgcacc caaactcaag gctctatcac 300  
 gatagcgtcc gattggccat aatacagaga gcagacgata ggaaacatta ctctattacc 360  
 atataaataa tgggctcgaa cacagtgatg 390

<210> 27574  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 27574  
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 atcgagacgc tccaaataga atgttgaagc tctgaccaa ttcaaacgac gataactctt 120  
 tactcggatg gctgattgag tcccgtaata catcgagacc ctcgaaattg attgttgaag 180  
 ctctcagcat attcgaacga caataacatt ttactcggat gtctgattga gtccccgttt 240  
 acatccagac gcttataatt gaatgttgaa actctcatgc tattcaaacg acaataactt 300

ttttactcag atgtctgata gagtgtcga ttatatcgag actcctctaa ttgaatgttg 360  
aacctttgac ctatgtaaac cagataaat cttactcgaa tgtatat 407

<210> 27575  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 27575  
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gaaactcttg agcttagcta ctcgccccct ctaggagcta agctcctcct catgacaaga 180  
aaacatgaga gcaaatttaa tgggtgcttac tacgtagact actcatgggtg ctcccccttg 240  
ctacggtaga ccctctgact cctactatgt gtcacatccc ttgcccttcc gagggaaatc 300  
cctattctgg gatttggtac gagatgtggt ctcatactt 339

<210> 27576  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 27576  
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tctacctttc tgagccgaac atggactacc cttgcctcgg gtacataaga actctacaac 120  
gagacacgct cactttctta attgcttctg agacttgcca gaaacataat aatacccttt 180  
ctgacttacg gaatgttgca caacgatgac caattctgca tgcttattga ctatgcgtgt 240  
gactgaccac agaattattgt tgatacg 267

<210> 27577  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 27577  
acctgcgaac gatgaagttt gaatgatcac catcgccaag cggatgaagca cctattgtaa 60  
accgctgata tacgacgaca tctgaccaga cacagatccg cctcggcata acatcacccct 120

gtcgctgaaa cttccatgcc atagctgata ctaaagacag agatcctgtc taagtgggct 180  
gaaccctgtt cctgactgcc tccctcctct agtgacagct ggatatggga tatgctcgtg 240  
ctctatctca catcatgaag cacgtgagcg tgcacacagag acgacaaact tcttgagggc 300  
cccctatgga ctggcgggcg gttggcccca catagctact c 341

<210> 27578  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 27578

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ttattcaata attgtcttct attctcactc caagcaagca atacatgaaa ctagtgacct 120  
atgcatgtag gcctctaaat gttaggtccc ctcatacaat tggattgccc tcagattagc 180  
caatatttgt tgcatagctt cttagctctt tttagccctt gctattgtca tgggcccccc 240  
tatgccttgc attgtgtctt gagcttcctt ctgggcttaa gtctgggtctt tgatatactc 300  
atcacttatt cacaaaggac cctaagggtg ggtacctaag tttctttttc tgggggatga 360  
actgagactg tttgagaatc cttgtatag 389

<210> 27579  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 27579

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tgagatcgtc gaccgatcac tatccacagc cctttaaaag cgttttctat atagactacg 120  
gatatacttg attgtattag gaaaccgttg atgcgacaca cattgtgcta tgagacacct 180  
ggggagaaaag ttgactaaga gctggagcga gtctcattga taaagtgcac gaagtgatga 240  
gctttactac tttcagatat tgataagatg tcctcaactc aaaatattta tgtatgatca 300  
tcttgcttga tccgacacac tatggtgatc caattggccc atagtgacta gtctctagcc 360  
ta 362

<210> 27580  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<400> 27580

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 cgtgcagaaa gacacacttt gagtggcctt ttgcataagg cgaatcccca tgctagcttg 120  
 tcctagcgtg gggaaatatc tgcgggaact gactcgaagg gtatggtgag attcacatac 180  
 taacctgagc atttgggact g 201

<210> 27581  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 27581

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 tcaacattct aagcctgagc ctgctctaca ctcgatcaaa gaccttcagc ttggctatgc 120  
 cgagcctatt gactaccctc attagctatg gtcacctatt taaaaagctc attcagatta 180  
 acctcaccct actcctactt acaaagaccc tccttatata ccacacctat tatctgaggc 240  
 tgcactaggt cgtattatat attatgacct accttataat gtaacgtata ttgattaggc 300  
 tcctcatata atctagcata catataactc atttcctccc ggagatgact tcttctat 358

<210> 27582  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 27582

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 ccttagtgcc ttcggccaga tctacgtctg cctccaatgc acttagatgg acgatactga 180  
 tgatccttgg ccgccctgta cctgatctca tcatatacaa caaagtgcac cgcgcgatct 240  
 tgctcaccca ataagacgga tcgttattca gtaccacaac atgtcatgag ctatggctaa 300  
 tgcttagaat accttgagga ttcatttcat c 331



<210> 27583  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 27583

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 ttagacttct ttggctcact tgcttcatgt accctttagg tgattatggt gtgatcagat 120  
 acatatgggtc atatccgaat atgctattta ggtagggggg ggagtgatga catttatact 180  
 gacatttgga ggctaaactg ctatacgta catataatat gcaacgaatc tgatacgaat 240  
 ggctaaatac atctctaact ccggagggttc ctctatactg tctcgtagcg tagatgagag 300  
 ccagatctat gaagattgat gactgtgata caa 333

<210> 27584  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 27584

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 tggacacggt cactgtttct tagcatgata gtcgagagta tgctctacag ctactccttg 180  
 ccttagcgct gggagatgat aactgcacat cctatgatgc tcagatgctt cttaattatt 240  
 gccta 245

<210> 27585  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 27585

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 acattctaac ttgattcata gaggataagt acctttgcga caacatgggtc catacatctc 120  
 accgacacat gtagagccat gttgcgttct ctcccctcaa cggaatctc ttcttccgca 180  
 aacgcgatat aattgtcga gggttatatga ttaacgatgc cttcaaagcc ctacactgag 240

atatcatgag ctacatgggc atcgtaaagg acctttatca gcagcgcgcg atgatgctcg 300  
gtatttatga gcagttcata ctgagagatc cttgctggag tttattcaaa agctcgacta 360  
ccttatactt gctttgttgg atgacgcgga agaactcatg ggcctcttac aagtcactga 420  
ttttctagaa aacctctatc g 441

<210> 27586  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 27586

ggatcctgta agactacctg ctagctgcaa acttcatatt tacgttggtt ggctacacag 60  
tgaatgagag actcattctt ctttctcat tgctgacata actgaaccgc aacggtcgac 120  
catctctttt tgagatctcc tgggaagacg aagaactgac tacgttgcta ttatttgga 180  
ccactatatg agcgggtgctg ctatcattgt attctatcca ctctaactg atctggaatt 240  
acgtgattgt agattgactg aaagacttag cttcaatac aaaagaatcg tctaacttac 300  
tcttagagg 309

<210> 27587  
<211> 219  
<212> DNA  
<213> Glycine max

<400> 27587

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attcctctaa ctataatgta taccatgtgc gctgaggaca ccgatgaatc tgaccttata 120  
atgatatata tatcatatca tatctatcct tccatatcta ttcactactt tcatggagac 180  
tagcattggc cgggtaccac tctatatcat gttcgacgt 219

<210> 27588  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27588

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cacacggagg tccgatacag gaacatcaca tatcgagatg ctcgaaattg aacaaccgaa 180  
gctntcgtta aattgaaatg gtcataaccc ttcacacgga tgtccgattc aggcgcataa 240  
tatatcgaga agcctgaaat tgaacaacgg aagctctcga gatattaaaa tggtcataac 300  
ttctcactcg gatgtccgat tcaagcacat cacatatgga gagcgtcgaa attgaaccac 360  
cgaaactctt gagaaattga aatggcatat g 391

<210> 27589  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 27589

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taaatcttgt tcacagaatc gcttgattca ctcttattaa agagatatag aagtgcctat 120  
tgctgtccgc ccatttgctt cttgcgatac tacgctattt atatctcaac ctgggagagt 180  
gatgccactc aactcgcccg taccaccatg tctgctttct tcagaaacaa gctgctgctc 240  
tttgagactt acgtgggacg cgctagtacc 270

<210> 27590  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27590

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gaagaatttt gacttttaca tgcccaactc tcttgagtgg catttgattt agttgttatt 120  
ttggctattg catcctagta catttgatac ctgtattgca tcatgcataa tcatggtttg 180  
tgtgaagaaa agtatctaag ttagaaaaat ttcttttagag gcaagagctc tctgtcttaa 240  
ttgattacat cctcatttga atttattaca acaagctgtc tgtaacttga gaattgagtc 300  
tcgtattgga ttaattgatt acaactatct cataatcgat tgcactattg tttgagacaa 360  
tgactaatat attccagagt tttttctcta atcaatgacc aagtggatta atcgattact 420

tctctctcat ctaagtgtta gag

443

<210> 27591

<211> 282

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27591

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ctcttactta ggaggggggc tgaattgagc agcacaactt accactatta tcttttatcc 120  
cccttttcaa cttattagga gacgctgctg atgcttaaca ttattaagct ctttctaaaa 180  
gactgttctc ccccatgtgc tagagcaa atgcctcgat ccatatgctc tcataaagtc 240  
tgagcgaggt actangtcat tatcttctgg agtgcacggg tc 282

<210> 27592

<211> 293

<212> DNA

<213> Glycine max

<400> 27592

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tggatgcctt attggttaata ctgttaccga tgattggtgc tttcttgagc ctctatata 120  
atgactacac atgtatggcc ctgacctatc ttgcctctat gcggctctat atcgtctacg 180  
ccatcatatg aacgaacgtc gctccggtgc tctacgataa ccccttgagg accgctatac 240  
ccttatacca ctacgaggcc ctctagggta tgacatcatt cgcggagcaa ctc 293

<210> 27593

<211> 386

<212> DNA

<213> Glycine max

<400> 27593

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ttgtttctcc ttcccgcgat gcttcttttc atgtctgcct gagtgggctt atagcctaaa 120  
ccatacttac cagcattacc ttgggtatatt atcagtctag ttatgccgcc gttgtttttt 180

cctaaaccca tccccggctc ataaccgttc cccaacataa ctccgggccat cattaccgct 240  
gcacgcggaca gactaggctg cccaaagagg gaggccacgg aggaaatgct gaccaccta 300  
aaagactgga aagcagtttc taacgattct tctgcccgtt ccacataagg catggaggat 360  
gggcagctta ccaagatatc ttcctg 386

<210> 27594  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 27594

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tcttcacacac tatactagat attcgaatcc tacaagaaa tatcttacct tagaaacttt 120  
ccacgtgcat tatgcggtat catgactgag tggcgatgac ctctgaactt tatacattca 180  
tggatcacat cttggcgacg actatgacca tgccacggag gtcgcgtatc ttgtggatcc 240  
gaacgcgtgg ggacagacca agttccgctt gcgatcttat caccgaggcg atgggcgccg 300  
agatcccgat gtgggagcac cgctgcattg actgattcca ccatggatcc tacgacggat 360

<210> 27595  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 27595

cgacgtggtt cactgaaggc ggagggactt ggctccgaag cagacatcta catacgcgaa 60  
tatgctacca cgatacgcgc tacatatggg aggctgctta gcgagaacga tcaacttatg 120  
agccttaaata tagacgatct aagactgaca caactatgga ctgctcagcg ggcgactcgc 180  
caacatgaat gtttggcgat gcgacacgtg ctgatgcttg ctgatgcat cgcattgcaac 240  
acgatattat gcatatcaat agcactgacc ctatcgatag gatcatt 287

<210> 27596  
<211> 523  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27596

tcaccagca caccatcatc aaaatgagng tgtgataggg atatatacga tagaagtatt 60  
gactcaaca nnaaccaaac agagnacagt tgattcggtc gctgcatnac ggaccttana 120  
aactaagctc gacacagcct aactcaatac ggcacacttg agttttttatt ttaatatgaa 180  
atctcatttt gactaaggc cctgggtaaa taattgctaa tactataacc gatgaatggt 240  
gctttgtcgg agctcttata taattagcac aaatctaaga tgctggcctt tatataacct 300  
aaacaggaat atttgctata caacattata tttctggacg tcactaaact tctatacgag 360  
aatacaatga gaaccacaaa aaccttatcc cactaagtgg atctttaaca tatgatatca 420  
tacgcagagt gacttgggtat cctgggtggca acaattataa aacctgggt gtaaattgcc 480  
tttgagaag ggctgtatgt ccattctaa gaaaaaggag aaa 523

<210> 27597  
<211> 212  
<212> DNA  
<213> Glycine max

<400> 27597

cacagactgg gtaggaaaga ctgctcttcc gatgccta atccctagcgaa atgagcctcc 60  
tctcacacta atctccctta gatgactccg ctctctcatg gtgcatacca tccatcgaag 120  
gacaccaggc aactatacat ccctccttta tagaagctta acaagccatc ctccatcatc 180  
tgctcctgca tatgcactctg aacctgcacc tc 212

<210> 27598  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27598

nttgaattca atgtcactgg caagacacta tacactactc aagctcttca ttgcatacaa 60  
tgtagaggat gaaaagccct atctttacta taacataaga cganctcata tctttccata 120  
aggcatgcag tcttactatg tatactggcg gatcatagaa aatgttgc atcctttaac 180  
tgctaacata tccaaatctc tgctagaaca tatatgaagt tacggtttaa cattattatt 240  
ctgttgtacg aaattggaat atactgctcc ccacgcatgt catcactttt gtgtctgggtg 300

caaagatgga aatatatcgg gggagcactt ctgacgattt attccaatag gcacaagggg 360  
catttcccat gctgcctgaa tctatgaatt ctagccacgc tagtcattat taaaatgctc 420  
aaacttcctg tacatgtaat agaacatgat cct 453

<210> 27599  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 27599  
ctctagagct ggctgctgct tgcgacgttt tgtattggga agccaaacat aagagcgacg 60  
gctctgagct tcttaagact ccgttcatta tgtgcttgac cttcgcttcc attgtgggac 120  
cttccttgat ctctatgag tagcctcaca gcgcccacgc tgctaaagtg cagactacta 180  
tgaggacgct cagatctccc ctattatacc agctatagaa tcgacatttg cctcactatc 240  
ctctatacgg cttgttgatg aggggtgctca tgagccatga gtcgtgtgga ggactgggtgc 300  
cgctgaggct gcactggagg atgaacgtat ctgatgccta gaccatcaac t 351

<210> 27600  
<211> 194  
<212> DNA  
<213> Glycine max

<400> 27600  
cgtggatatc atacttctta agaagagccg tgtctgggat atccttctct ttgtgcagac 60  
actatgcggg agcggcctgt agcggccgct ttgatgggaa aactgaaaa ctttgtgata 120  
cctccctgag accgcgtgtg cttcttgctt gggactttgc tatgggatga gatcggcgac 180  
gacatctgcc atga 194

<210> 27601  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 27601  
tgctgcatgc gcgctttctt tttatagaca tgaagaccat gatgtggcac ttgcaagatt 60  
acccatgggc ttgagtgtgt gagccgaaaa gacggccatg aattctgcgc tttatgctcc 120

tatttgcgga gctactgaga cacataatga atcgtggacg cataaaaaag ctatgatatg 180  
 gtgcctgtcg gatgaggagt gccaaagtctg aattgggagt tagtcttcgc atcacacagg 240  
 actggatgca tgcacatgca ctggatactt ccttggatat tctcaa 286

<210> 27602  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 27602

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 tagatgaatt catggccaca tcacggactc ctctaaggac aatagcatca ttggacttta 120  
 aaaagagtat tacagaatag ccttggagac ttatgcagtg tctgggatgc catgaacaac 180  
 atgatgacac tacatcacac ggaaattaaa gcatcatttg aaacaagtac acatgtcatt 240  
 ggacatgtct tcaaaaaaac cttatacaag aggcttcttg gaatggtttc aaggtatgct 300  
 tttaatcaaa ttgttggtga atttaagcgt gttcactatg ctggcaagaa tccttcact 360  
 tgtggttggtg tcatgagaag aactcacggt ctctcttggtg cttgtgagct atcgaaatat 420  
 gttggtggtt gcatccact ggatacaatc catatgttcg 460

<210> 27603  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27603

ataataagat agtgaagtca aaaactgtta atatcgttta ttagtgtgga aggttatcct 60  
 gcccatggat agtaaggatc gagccttggg caaatgggtcc ccaaattggg aaggaccgtt 120  
 caaaataatt cagatctatt cgaatgggtc ttataagtta gaggagctaa ccctcagaa 180  
 acgtactttg agcataaatg gtaagtattt gaaaaaatat aaaccaacac tgctcgaagt 240  
 taaaataagc atagaataag aaaaatactg gaaacataaa aatggcgata acagtaaatt 300  
 gccacaaaag ggccattgtc aatattacat aaaaagtaga atcgaaatac agaattcgaa 360  
 ataaagaaat tataagttct actaatgcat gaccagtc tcatatatn 409



<210> 27604  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 27604

ttgcttgtgt gctaagtgtg tgatgggatg tgttgatttt tcgatggaac ctatacttat 60  
 agtatttgag cgtgactatt ggtccttggt tgtaggggct attatagttt ctgtagataa 120  
 ttcctaactt gcagataata gctgggagct tacagataat gttagagata aacattggct 180  
 tgtagattaa aggtataaga taatcgtacc ttgtagataa tgtgtgacct tatagataat 240  
 taattacctg ccaatagata agatattcaa acacatttga atattacttg gttagagata 300  
 acctgtttgt ttgggaacca actgctaagg gctaagtggc cgctctcttg ggcattgggt 360  
 acctggaggt ggacatgtgt ctttgaatgt atgtaggatg 400

<210> 27605  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<400> 27605

tgctctggag tggacgctgt acgcaggcat gcattgttcg tcatacgatc tggctgttat 60  
 accccgttcc catcaatgta tataacctgg agagcctcct acgtccatcg aaccttcata 120  
 gctccaggac atggatccgt cttactgtcg tctgccttaa tccattta 168

<210> 27606  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 27606

gagagcatgc agcaccatag aatgtgtggg catgaaacat acggtgggtc ttagggggag 60  
 atgcattgct tctgtagggg tgtcacttga ctctctttca tagcctatgt agctctcttg 120  
 agaagctagc gagagaagtc cttttggcat gcttgcttgg aaaactatat tgagaatcta 180  
 gtgcttactt acgcgctccc cttgaatacc ttacctcacc ttcttgagag gcttccttgg 240  
 tatcattctc ttagaatgta gagcttatca cacacactgc tctattatct 290

<210> 27607  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27607

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 acactaatgt gatcctttta tgccttgga aaaatgggtg aactctgatt ccaagaggct 120  
 ggtacttaat atttgaatga ttttttttat tacgatatat gtgaggggta aaggggtgtca 180  
 cacgaagctt ctcccttaag cttttgaaaa gtgatttcca tttagggatc aagaggagct 240  
 agaatagtca ttttgcttct tgttcctagc atgtaagcat atactgaaaa cttgtcttag 300  
 gtgcgagcat agcggtcagt ctacttangt tagacacaaa actcaagat 349

<210> 27608  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27608

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 tctcatccca tatagatgta tctatcatct catccacaat gatttttagag gaaggcatct 120  
 catgcatata caactctcaa cataatgcat aactgggtga cacttcccaa aagatgataa 180  
 tcattntacg cataattaca aaacatcatt ttaaataact accacataga tactctaatt 240  
 tcatgcat taatagctca taaaatcaca cctgtgatta tagcatcgta tgaatcaacc 300  
 tatattttat tatgaaatac aacacacatg tgtatcatac tattttttact cgatgtataa 360  
 gataactaaa cacaaaactc aagcagacta attcatgaat n 401

<210> 27609  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 27609

cgaaggggaag agagagacca gtcacgagca catagcatgg tattgaaaga ggagtttagct 60  
 gcttgctcaa agtccaagag aaacttgtct cagcatttat gcgagacaaa gaccaacatg 120

ttagccatcg tcagcaagta ccaagaagaa ttaaacttag ccatggccca tgagcacaaa 180  
 gtggcggacg agtatgcctg agtgtacgag aataaggagg ctagaggaag ggtgattgac 240  
 tcgttacatc aagaggcagc aatgtggatg gaccgatttg ttcttacttt gagcgggagt 300  
 caagaacttc cccaattgct taccatggcc aaagcaatgg cggacaccta ctccgcccc 360  
 gaggagatcc acagacttct cagctg 386

<210> 27610  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27610

aacagacttg aatcgcttga ttccttacct ataatactaa gcttgcgctt tacttgagac 60  
 aaactatatg cacaaccgac ttttgttctt tatnctaaat agccataaaa agatatataa 120  
 taaacctgtt tcataaaagg cttcctcaca atggaggctg cttcaatcta ctaccgttgt 180  
 tgacttacta agtacaagac aacacattat taagttgatg attaattata catgatttta 240  
 aatacttaca tattttattca cttgtaacta taaagattca gactgagctt aaatagcaaa 300  
 tgatgtcata atatatactt tcaagtttaa tataatacaa atgcgtatgc ataataaaaa 360  
 tataatataa agcgtgactc acatgttttt cctagacgta taattatggt attacacact 420  
 taaatgggtt tgaaaacctt ccg 443

<210> 27611  
 <211> 81  
 <212> DNA  
 <213> Glycine max

<400> 27611

gacctgcacg catgacagtt ttttcttctt agttgactct gaacggatat ctctgctaaa 60  
 tagagtctta atatcatccg c 81

<210> 27612  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 27612

tcctaggtga aatcacgtgc agccatttcc cttagagttt tctcactgcg tggaggatga 60  
gccatgtact cagaatgtgc aaaatcagaa tgctcaaaat cataaaggct caagatcacg 120  
atgctcaaaa tcaccaatat cattgcgcat attcaccaat gatggaacgc tcaaaatgat 180  
aaaaaggttt aaaatgaggc ctaactaatc tatgaaatgc cctatctatc tcaagagcaa 240  
agggtcgaaa gtcaaatgga ttgcctctaa aatacactac attcagcatg cgacacaacta 300  
gttgctaat atgtaaataa agagtagggt taactacagg gaccctcgat gacaccaatt 360  
gacctacaat aagtgagcac ccaaaacn 388

<210> 27613  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 27613

tattaccatg agcgaggatg cgctcgctcc gaccatccat acgattactc gcgtgccaga 60  
ggcatactga cctgagcaca ttgggttaag aacttattct ttctacgag tgctcccatg 120  
tctctatatt acattgtacc gagaagaacg gataatgata agggagagct cgacctaata 180  
aacgccgact taatctcctt agacgatcag ggggccatcg tctcataggt ctgggtgcaa 240  
ctccttacct atatgaaaga taaggacacc gcgatggcct ctctacttct atcgg 295

<210> 27614  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 27614

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ctgagccagt tattgccact tgaactgtct aagcggatga ccgatcgatt cccaggctat 120  
accgagacgc tcgaactcga acgctcatgc tacgagccag ttatagccac acgaactggt 180  
tacgtgggtg cctgatcgat tcccaccgta tgtagatacg ctgggactcg atcgtaca 238

<210> 27615  
<211> 186

<212> DNA  
<213> Glycine max

<400> 27615

gaaagagtga tacgatcatg atgccacaca acatactagc cttgaacctc atgcgcctat 60  
cctgaggtgg ctaaagagcg aacaagctca cactgatcgc ccttcgctca ctgtgcgctt 120  
tctgaatggc aaacgggtgcc tgacgcctgc tttaatgaat acgcctatgc gaagctcttg 180  
cagccg 186

<210> 27616  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 27616

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tttgtgtgat tcctagataa gacttatctc atcgtcacac gccttggtata cttctaatacg 120  
gatctagctt ggatgaaaca ctgtatgttt gtcctcaca ccctataatg gctaattgtct 180  
tcctgctgac ctcttcttg aaaatccaga aatcgttcct actaggttga ctactttaaa 240  
cgatacgcta ttacctata ctactagatc ttttagaggt acaatgtgct tatgcacatt 300  
tagtcatcct ttgatccgtc tatgaaaggt aggatgtcaa cgtttctctc ctacgtgaac 360  
a 361

<210> 27617  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27617

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atagccaccg gcttatgagc gtcaagcacc agctgcgctt ccaggccatc aatggatggg 120  
cctttccaca tagagccgcg ccaccttcg tgactatgag tacacaaact cttttgatga 180  
gacaccaccc cgacattgga caaacgggt gacacgcatg gcaaagagcg accctgtagt 240  
gatgaacacc ttgaccagat gtggatgacg tcgatgacca tcattgttct gctaattgatc 300

atgcctaega tctccctctg actatactga tctgtgaat ggcccaggag ccggtgatga 360  
cctcctgctc tttgggaggg agccatgaat tgttgcn 397

<210> 27618  
<211> 519  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27618

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aannaaatca aacaagagaa ctttattgag tcgtgcgttg cagtcgtgac ctactgatac 120  
tcaagcctgc ttgaatactg ctccagatac ccgcgttcct atctttttaa acacctataa 180  
agaatccatt aacaaaccat gtgaacgcta atatacaacc tcgtgaaagg gaacaccctg 240  
gcgctaccca tctacatcgg ctagacatac actccacttt caacagcagg cgaaatagcg 300  
tagaggaccg caccgagtga ctttatcaac acatgcacca gctgaacggc gagaagctcc 360  
tgacgctgta tgatcaactt acggctacgt gcacgtgttc acaccgaaca tgggtggacac 420  
ccaccacaat aagaagcgat ccccaaaatt taacactacc tcataaccgg caacaactgt 480  
gactctaaca cagtatgaca taaaaaaca ccttacacg 519

<210> 27619  
<211> 354  
<212> DNA  
<213> Glycine max  
  
<400> 27619

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gcaccaactc agcagccatg atcgttagct caccatctgc tgggtgactc aaaattagtg 120  
atctgagtct caatgcctag cattagctta tcccacatat cgcctataat ctccataaca 180  
ctgctagata tggcagttag cacttgcttt ttctgagata ggaagtggaa tgagactgtg 240  
gggacctaag gttacataga gacttatgag gctattctat gggcactctg atgcggacgc 300  
cactctatga tacaatacct ccttactatt ttcttcaatg gtaaggagaa cact 354

<210> 27620  
<211> 128

<212> DNA  
<213> Glycine max

<400> 27620

cgggctgagt actctattgc gccctataga gagctggatg acaatatggt ggctgctggt 60  
ttctgaggga aagagtgata caatcatgat gtcacacaac atactagcct tgcacctcat 120  
gcgccttt 128

<210> 27621  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 27621

cccctttgat aactggtgc cagtctctc actagatgcg agaggattag tatccttctc 60  
aaccaaatga gacacacaca tagacgtct ccatagagtg atagataacg gcgccactcc 120  
tcgagctgct acgcctagac tctgaccag cgacgcccgg tagccatact gagactgaat 180  
gcaccaaaca tgtgccagct gcatctgac gacgacttag tgtctcgct gtcacettca 240  
gattgccgtt cactttctc catactacct cacctgctta tgaccgcatg atccttgtct 300  
attacgaggg agggaagcta ttagtctctc agtcattag gtccatgctt tgt 353

<210> 27622  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 27622

gcaggctaca gctttttttt tttctcaact gagactctga tctacttggt acacgaaagg 60  
actcaaagat ctgattacag aggggggtcga cataaaatag gccacattac ttacataat 120  
tagtctgata ggtaaccttc ttttggggag ctacatatcc ttatctagga cctactaca 180  
tattgattcc cctactgctg tttgaatatg agtgtaagc tattataccc ttgagtagtt 240  
tgtgga 246

<210> 27623  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 27623

acactactgt acattcttct atgaccatgc atatacgttt acactcatgt atagagccac 60  
agatctcatt ttaaccttgc tttttattga gggctccgca tccattcatt cttcaaaata 120  
agtgaactat tttactgctt cacctactag agattgacta aaactgaacc agatgcttgg 180  
gaatgacttg tctcctactc atgcacagac ctatctcaat ctagataatg ctcgatgacg 240  
ctagctctcc tcattgatcg ctaagcgcg g atgattctgt gag 283

<210> 27624

<211> 418

<212> DNA

<213> Glycine max

<400> 27624

cgagctcgag cctgcagctc gggatgatcc tatgcacttc tcggggcctt ttttatgggt 60  
ttcaaacgag cttgatccat tcaaagtgc aggcggttgc tgccttaaag atcaatacag 120  
cccttactat acacaacttt accacctgag acgtcatata ccattcctgt gttggcgaat 180  
tagcgaacag acccgaacca atatgggaaa acgaacgtga cgcattgtata atgccgaacg 240  
gtacctgaag cgatcttgta atgtttcgcc tatgcgaaca atttgagatt ggataaggag 300  
aactcttaag gacatgtgct atggttccag cataaaagtt cagcagtgat actcttcttc 360  
actgtatgac acgatacaga ctcaggatgt tgagttctcc caaacactgg atagacat 418

<210> 27625

<211> 318

<212> DNA

<213> Glycine max

<400> 27625

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taatggttgg gacccttttc tcgtgtaatt gagctccttt ccttgagaag gcctgtacta 120  
gtcttctctt gtgatacacc atttggttgt gcgcgcatga gcggtcgcga tgatcttgtg 180  
aatacaacaa gtgggctctg gagctctgga cgggagagag gatcaccatc tatggattct 240  
tctgtggttc acgcagacta ggtgtgctgt ggctgcatga ccctaattat atgctggacg 300  
atcactacat ggtccata 318



<210> 27626  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27626

ntgacctaataa tttgaacaaa aggaaatcgt aaaataactt ttatgggtcaa gattagatgg 60  
 tgatgataaaa gatgaagaag aagcgggaaag gttattatta atgtangttc cggggagggg 120  
 aatcaaagta aaggggtccaa aaacaacgaa agtagaagcg tcaggaagag tttggcagaa 180  
 agtggcttcc aagatatacc cacatgcaca ttgcactgtg atgctaactt gacaatggcg 240  
 cgcaaattgg accacggcct caataacatc agaatttttc gggactagaa tgaagatggg 300  
 tttcaaggca aagatcgcta tcttggttaa taacgagggg tatttttggc ttgttcttgg 360  
 attcaaagag cctaccacca cctttgtttg aagatggcn 399

<210> 27627  
 <211> 65  
 <212> DNA  
 <213> Glycine max

<400> 27627

ggagcctatg ctactactgc gccttgaatg atggacgaat gccattgatg tcgtggacga 60  
 tgaca 65

<210> 27628  
 <211> 105  
 <212> DNA  
 <213> Glycine max

<400> 27628

catgccatga taaccatact gcactggctg ctacctttgc gcttactatc acagaagaca 60  
 gcgatgaaca tactaaatgg tatacacagg acttacaacg ctggc 105

<210> 27629  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 27629

cacaccatca acccaccaaa cgaaggaacc aataaccgcc acaccgaaag aaaacgaaac 60  
accacaaagg acgctttgac cgtgtgatac cctagcattc agacaaccaaa aaactcaacc 120  
cgggatacac accccctcac aaatatacat gaaccgccct gaagaggac aaccaacaca 180  
actctccgaa aaaaaccac acatcacggc ggccggcgac gccacaaaa aaacaccccc 240  
acaccactac agggcgcatc cgtccccca acgaaggga caatcatcat aggaccacc 300  
acaccgacaa aaaatggagg gcgagctatc aaaaagaaat acaacacccc ccagacaaaa 360  
ttagcacgaa gcgctagcga gaaccttaac cccacaagaa accccgccga caaaactcaa 420  
aacaagcaca acgttgcata ataaagaaca cagcccaaaa gaagcggcac acg 473

<210> 27630

<211> 90

<212> DNA

<213> Glycine max

<400> 27630

gcgggctgag tactctattg cgtcctatag agagctggat gacaatatgg tggtcgctgt 60  
tttactgcgg aaagagtgat acgatcatga 90

<210> 27631

<211> 294

<212> DNA

<213> Glycine max

<400> 27631

tctacagctc gaacgtgtgc aggctggctt gctcttgaca agagtactag aggggacacg 60  
cattaggctc gacagacgca gtctcacgag ttcagtgccg aaagcatatt ggcgctgac 120  
gtctgtcggt cccttactgt cggataatgc ctacaggac agagtggctc tggggctttt 180  
gactggagcg cgcgctgaac atgcacacaa ctctatgcat acctgagact aagtggcgct 240  
catcgcaaca taccacgtgg cccagatggg agaggaccat gccgcaaaga tgtg 294

<210> 27632

<211> 401

<212> DNA

<213> Glycine max

<400> 27632

cctctaccgt aaaaaaata ttatcggccg gtgttttttt taataattgc gcaatgtcgg 60  
cagaaaaata tcagtcgtgg ctatataacg accgatgtca ggtatttttg tttcaattca 120  
atccctgaat aattattgga tattgtccaa taggaaatgt tcgatcggcg tcatcaggtg 180  
atgcttgctt tttatttttag acctgctgga tcgggtcatct ttcctggccg acatcgacta 240  
tcattttttt tatcagtgtc ggtgaataat gttttttggc cgaggtgggc tgatgttttt 300  
ctagccgagt aaatgagaac acgccagtgt cggccgaaac acagcttcgg ttgagctcgc 360  
acgataaaac aaagccgacc tacattgtaa gttgtgtagg c 401

<210> 27633

<211> 395

<212> DNA

<213> Glycine max

<400> 27633

gactcattaa ttttttggtta atcaacttgt caacatgccc gcttcgctag aatctctcac 60  
atcacacact atacaacaga attttatcat taaatgatat caggcacttt aataatttga 120  
ctaagctaac ttgaaatcat tttactacta tctctcaatt atgaagggga aatgcttaca 180  
catacactgt gaatatttat aacatggacg atctctgggg taagagactt agtaagaaat 240  
cggcttgaac ttacgatcgt acataatcgc tgccgataca tattcactaa tcatcacaca 300  
tgatgactgt atccgcgcgt ctatcttgag aggagagcta gtagctcccc ttattattcc 360  
ttactaatac gatgacatca tgggtgaagat ctatg 395

<210> 27634

<211> 154

<212> DNA

<213> Glycine max

<400> 27634

agcaccacaa atcccttaga cctccaggcc acatcactcg tagctgtccg cattcaacag 60  
ccaagatgac cgagcaaagc cactccctga cttgctcaga taaccacgga agacgattac 120  
ttgacgctcc cttgtctata gctgaccttc ttac 154

<210> 27635

<211> 214  
 <212> DNA  
 <213> Glycine max

<400> 27635

cattcagcct gagctgctga tctatgagtg aaatgacgcg tggttacttc atacacgcct 60  
 cggaagaatg tggcattact tccggcgcta acagggttgag acattaaatg ctggttcatc 120  
 attgaattta tggctccgac cagcggagtg tctcagaggg cttcatccat ggcacatag 180  
 atcctacgca gctcaatgat atctgcgcta ctca 214

<210> 27636  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 27636

cataagtgac tcatattgaa caaattgtat tatctgttgt atacatctat tttaaaatta 60  
 gaatttttta aattaaaaaa tatgattaaa gataaattta gagctctgag ccctaaaatt 120  
 tgttttagtta ctttcaatat atactttttt ataaaagcct aatcctcaaa atattttttt 180  
 tataaaaagt gttgaaagta attaaaaaga attagagttc atctttaatc atatttttta 240  
 atttaaaaat aatagtcaag gaataatttt aaaaaataat taatgagaag atcacatata 300  
 atttgattga ttaaaaatta ataatatcaa aatctctaca gtcacaaaac tatgtgattc 360  
 agcttctcta ttcattgata gttgcataac tctcg 395

<210> 27637  
 <211> 154  
 <212> DNA  
 <213> Glycine max

<400> 27637

gagcgtgcta tgctttgatg acacgatcat ctgacttctt tacacgattc ataacatacc 60  
 ttgattgcct gaatctatga tatgatactg agagatccat tgatattgca gaacgccact 120  
 gttggcatct taacaaagtg gacgccactt tccg 154

<210> 27638  
 <211> 294  
 <212> DNA

<213> Glycine max

<400> 27638

ccatgtaacg ctcattggacg tgggactggt atcacgctcg atgtgacctc ctcttcctat 60  
cacgcccatc tcctctttat gttgcaaaca ctacatatgc acattagcct ctatgactac 120  
aacctgcacc tactgtgcat tgaccttget ataaaatccc cactgaagat atcaacgctc 180  
ctatcactgg atcgctgggc cagtactacg cccctcttgt gtagctgacg gaccctaata 240  
cgctcgttgc ccatggagct tgagatgata ctgatgcata catctctgat gctc 294

<210> 27639

<211> 190

<212> DNA

<213> Glycine max

<400> 27639

gcactatgtg gcggatggca gatagcgcag aacgagtatt taccctacc tcacaggcgc 60  
agatacactc catctcatgt ggccaagctc attctgtgct aaactactaa cacgtgtccc 120  
atactctgca ttctatctac tgtggtacag cattgatcat accaaacgaa tccaacagac 180  
ttgttattct 190

<210> 27640

<211> 162

<212> DNA

<213> Glycine max

<400> 27640

tagaaagatc ggacgacaag tgccactttt gattgactgg cctcaagact ctcatgtatc 60  
agccactctc catgtgtctc acctgcctct atttgatgcc tatggaggat ccttgaaaat 120  
caggactgat actcttctat aaggaggctg ccttgaggac ct 162

<210> 27641

<211> 142

<212> DNA

<213> Glycine max

<400> 27641

ttcagatctc tcaaactgct caaagatagc tactgcttga tgagcgtgaa atgcggctct 60

gatatcgaac atatacacagc gccggacaca acatcattgt gtgacattct gaggctacct 120  
catcgaatag cacttgatgt ac 142

<210> 27642  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 27642

cagtcctcac tgcacgcatg cacaactctt atgttttgat tcttaacacc atagaatact 60  
tgcgcatcat tgggaacatta tgatattttg cgcgcgagct ccatgccata taactgtacg 120  
ctacaactct aagtcttgta tccaacgctt gtcaatgaaa gaaatgatat agcttgtgat 180  
ctaatacgtat acaactactct acattgcctg tgaaacaaaa tttgctttaa catgcacatg 240  
ataccctagc ctacttgcgc taccacatgt cttctattat tgatatatta tacctacgtg 300  
tacatgtaca ctttattccc ctttgaattt gctggatgta ttatatccaa caaaatcctc 360  
gagtatttcc tatgagacta tc 382

<210> 27643  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27643

tgcattgaa gtagcgacat tctatgaagt ctctcaatg atatctcaag catagaagcg 60  
actatgggac ctgagaccat cgacatcagg cactcggtac tggagcacca tcaatgcgtg 120  
aacaatgaca cagcataaga tgtgactctt cattataaag actgaagaat aaagcgatga 180  
gcaagctcta ngaattgatt accttaatac gtgtatgcga taacgacata gctgggtgaa 240  
tatccacaat atgattctcg ggaaagttgg tatcttatcg ctccactaca ctggtgatct 300  
atgactacct tacggatgta gagtaccaga cactctaact ctgtgacatt gagta 355

<210> 27644  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 27644



togagaccct cgaaattgaa caacggaagc tctcgagaaa ttcgaatggc cattacattt 120  
 cactcggatg cccgattcgg gaacataata tatcgagatg ctcgaaattg aacaacggaa 180  
 gccttcgaga aattcgaatg gttataagtt ttcacacgga tgtccgattc ggggacataa 240  
 ctcatctaga cgctcgaaat tgaacaatgg aagctttcta gaaattcgaa tggtcataag 300  
 ttttcacacg gatgtccgat tcgggaacat aatatatcga gaccctcgat attgaacaac 360  
 ggaagccttc gagaaattcg aatggatttg 390

<210> 27648  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27648

ntaaagcaca gcaacacaga atctaggtgt ccatctccct tcaattcaat gggttttcta 60  
 ggtttgagaa gtgaaattga ggatgaggtg tatttgaggc aaactctcac ctacacaaag 120  
 tctataacat caatctaaac ttgctcaaac tggatttaca cctaaaatct caccgaatca 180  
 aaatttgact cttcaacacc caattttgcc ctagaaatgg ctcttggttc actttggtca 240  
 tttgtttttc tctctagcac agcctaacct ttctcataag tcctaaatgg catttcaatc 300  
 taagattaac tcaacttaac ctctanatac taccaattcc agatttggtc ttccagccct 360  
 canaaattca ctctttttcc actcataaca ccacattttc acttt 405

<210> 27649  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <400> 27649

agtgacattg aacaaacact aaaatataaa gtcatacata atctgatgcc atgttaaaga 60  
 cgaagaccct aatactatat atgacatggg tacagcaatg ctataacttca cagatgctag 120  
 atttcaagaa tgatctaata atgccagatt ggatagcagc ctactagaga ctataacggg 180  
 agctaaactc tcgattcaca tcgatgcac atacgaaatc actaatcata ctatacgttg 240  
 acgagtcaga ggatgattat catactatat cggagtagac cttctgaaca ttacgt 296



<210> 27650  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27650

cgccacggag ttttccgact atgctcttgt gtggtggaac aagctacaaa aagagagagc 60  
 aagaattgtg gtttgaaaga acaaggggtga tgatgaaagg aaggaaagaa tcactctttc 120  
 cagcgagggc aacacacaaa ggttgagaaa gtcctttgat acagccaagg tgttcttgaa 180  
 tcactcaaga atttaggaga atcactctca ctaagataaa agagataaac tctaattttc 240  
 tgaataaaac tcaacttgtg tttattgata aaatgggttca gcttatatag aagctgtaca 300  
 gcagatttta gtaatgacc actaacctag aattaaata acttaatgcc attaacctan 360  
 ggaattaaaa aaaacttaat ggctgagtgt aactgatatt gtggcan 407

<210> 27651  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 27651

cctgcacttt tgcgacctgt ccctatccca ctactaagat acttaggaca gagatcggct 60  
 ccttatctag aaggactagc accctagtcg tgaatttact cccttgtagc tgaggagact 120  
 atagatctac ggacttgacg aggggttagt actagccgct catttgacga ctacgccata 180  
 actatcatca tgaggacaaa gtgtgattct agggatcggg acgtaagaaa gcatcgcgga 240  
 ccactgaata cgac 254

<210> 27652  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 27652

tctgcccaca cttagaacct cgtgaggatc ttatccaagt gagcttgtga cttcaccaga 60  
 caattgtgca tgatcagcac gttgcgatgt tgcttaatat gtctggactg ctgtgaatgc 120  
 tgccgttcac gagaacagtt ctcatgggtg ctttactact tttggtgggg tgctcgcttac 180

gaagctcatc attgatgtct tgaatgcttat atcgactatg gttatcgagt accaaggggt 240  
gtcttcgtct accatacgcg acatcaacct ccagaaacct tcggagcctt tcgttgtaac 300  
ccaacatcct gaggaactct tta 323

<210> 27653  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<400> 27653

agtttttatg atgtgctcat ttgtataaac atctatatat tggtagtagt tcaggctcac 60  
gtaaccataa gctgcaataa tatgtgaaca tgcatagtga aacgctgaat accttccgca 120  
ttgacaataa tgaccattca agttaactgc ccacttttgt ccgccacgtt gcgtaataag 180  
attgaaggtc tcctctactt caaaccttgt ggagtggatg tcatacacgc gaatgatgtg 240  
tgaacaagct tgttcttgat tttttctaag ttctttaaca agctttgaac aatatacttg 300  
cccttcattt aactgtctct gggcttggtg gccacgctca acaaagtact ttcgacacct 360  
actgtacgtt gatttgacca atgctgttat gggaatg 397

<210> 27654  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27654

ataagcgcca gctcgacagc taatatatga tttgacgatc aaaagtattg cgagggttaga 60  
tgggtgcttt ttaacggagg ggaaaactta tcatggcaat tacataaaaa cggacaatga 120  
tataatacta gttagagtag agaagcaaata tataactga agtaattagc cacagcaagt 180  
cttactgctc atcaaccagg accgctatgc cttangcaaa atttacattt aagttctaata 240  
ttattatcat tatcttattt atttattcta agttcatctt taatatttaa atattttact 300  
tttaatatat aaaacaacag attcaatcaa acttattttt gacatangta gtgttatata 360  
agatttaaata aattataat 379

<210> 27655

<211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27655

agttatgtat gttgtaggng atcatgaatg gataatgcga tggagagcct gtaactggat 60  
 acattgacgg gatggaaaaa aatgctgaag ctgaagggtgc acacaatcct tcacatcact 120  
 ggagtccttt tgagtcacta atgattaaga agatggacga tatgcttcac ctctatcatg 180  
 agcactaagg agaaggatcat agttcattga acaatataac taccgcatg gaaaacagtg 240  
 agactatgct gacccttagt aacctactta accctgacga ggatgaagc 289

<210> 27656  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27656

cctgtanttg aactttgaac atgagaacgc tcgaatacng agacacttcg ggccatcagc 60  
 tgacaaggca agcatctgtt acganagttg tccctttggg acacaagcgc gaagacatag 120  
 attgggaaca tacgcgtgcc attatatcat acattacagt gaattgagag cctgccgatg 180  
 cacgtatttc cttactaacg atcgcttgaa caagtacgcc tattatacta tacaagagca 240  
 catgtatagt gaccaagtca taggcttacc tacaaggttt gcatgggctc ccaacgtgga 300  
 aatggacact acttagacag gacactgtgt tggatcacat aactgcgtac tgaatggaat 360  
 ccgtggaaca atgcagtgta cacgctctca tctggggatg ttaatgagaa tacagatgac 420  
 aactttatga tgaatcttga ctaagtactc aatcttgtgc ttgattacaa gcttgtn 478

<210> 27657  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27657

atcttngtat gatttagttc tcaccggcga aaggatcgaa gtgggtctga aaagaggcaa 60  
 atttgatcat cctgctttga caaataaaaa gcctgcggca aatagagagg atgaagagga 120

gggaggaacc catgtcgtgg ctgccattcc tgcattggcca aattttccac cagccctaca 180  
 atatcaacac ttcgccaata tcaacccttc tcattacca ccaccctatc agccaagaac 240  
 cctaaatcag ccacaaaggc caccctaaa tcattcaata ccaaaccacca cccttaaaga 300  
 agccaaaatg ccaaccaggg aaagaatttt ccagcataga agcttataga attcaccoca 360  
 attccagtgt catatgctga cttactenca tatctact 398

<210> 27658  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 27658

tcgatggaga acaaccttag gatgcagagg gaacactttc agagatgtat aaattgtgca 60  
 agcaaaatag gtcacgtcta atataattta aattgtaagt tcaacatcgg ttttcaataa 120  
 aaataaacia aaaccaatgt taacaacttg atgttaacgt taacatctat tttattaaac 180  
 aaaccgatgg taacgaacta aggttaacat cggttttatg aaaaccgat gttactaat 240  
 taatgttaac atcgggttatt ccaaaaccga tgtaaagtc acttcattaa catcggattt 300  
 cttctaacat gatgttaacg tatacacatt attcacaatt atgccaccgc gttatcttaa 360  
 catcggattc taaaaaaccg atgtttataa agtctcatta tttatcatct tgccaccgtg 420  
 attctgcaac atagat 436

<210> 27659  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 27659

tgtcttttac ttttaataa taacctatat actaatgtca catcctatca gagcgtcgtg 60  
 ttcccgtgtg ctctatcatg agggctcttca tagtcatgca cctattcatc tgctcccccg 120  
 aacacaagtg caagatcatc acaagatcca aacacaacta cacacaggga gtgagatata 180  
 acattcctag ctaatagaga aacaagacaa ttttaataac atattatata actgacatac 240  
 caattgctta aacatagctc acgtaacttc accactgctt cattcaaaat tcaactgttca 300  
 atcatcaatc acattacaca agaatccac ccttcgatcc agatataata acacatgctt 360

tattaagcat atgcgacaag tatgctgaga ctcaatacta tatg

404

<210> 27660  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<400> 27660

actcaagctt atgctgcaaa catttataat agaccacctc agcagtaaaa cctttctcaa 60  
ctaaataatt atgacctttc aagcaataga tacaatccag gctggaggaa tcatccaaat 120  
ctgagatgga caagtctctc ataacaacaa cagcctgccc ctctttttca gaatgttaat 180  
gggtccaagca agccatatgt tctctctgca atgcagcaac aacagcaaca gtcacaacaa 240  
agacaaccag caactgaggc tctctctcaa ccttccttag aagagttagt gaggcaaattg 300  
atcatccaga atatgcaatt tcagcaagag acaagagcct ccattcatag ttgacaaat 360  
cagatggggc agatggctac tcagatgaat caagctcagt cccaaaattc tgacaaattg 420  
acttcacaaa ctgtgcagaa tctta 445

<210> 27661  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<400> 27661

ttagtttatc ttccaaatth tgggttaagct ttattgcgaa ataacatcag cttcacgcca 60  
tccccaaaat gagcacaaca tcaagcaggg taagtgactt aaatattttc caattgctta 120  
gcttttgttt gacgacaatc cgatatcatc ataataacta ttttaagaata tttactttcc 180  
acgtattatt aaaactacaa gtaattaata atcacacgaa ctatttttga gatttgatcc 240  
aataattttg aaattaatca ttcacaaatt aaaagttggt tgataaaatg tttgaaaaat 300  
taaattcggt taaaactaat tgtctcactt gataagagat tacatgtata aaaataataa 360  
attaatgtaa tcaagctaaa tgtatttcag agataac 397

<210> 27662  
<211> 267  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 27662

aactcagctt acatttcctat atggaaaaat tctttccatt ttaaccttat atacggccga 60  
 gatagagcat ataagtgggg gcaatcctca tcatatgagc taagttttgg ggtcgaggcc 120  
 ccaactcaca ttctaagatc gcatcagagt ctaatatataa tccattcgaa aggccacccc 180  
 ccatgttatt catgctctac acccaaaagt gctaggcatg aggggggctt attggaaaat 240  
 cccaantac cacattgcct acaaaaa 267

<210> 27663  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27663

ttagtttttac acattcaata gacatatgcc aaatggccaa atagccaaat agtttgga 60  
 ggtcacagtc acttagtgca gattttatat actcatataa tcatgattca ttcttaacga 120  
 aaagataatt tcttctataa catcaggact tttttgtcaa aatctttttg gagattccaa 180  
 aataacttat taataatctt atactttagt tgcaacaaga gagtctaact cttgagattg 240  
 ataaatacta ttttgataaa atgaaacgac tgtacagttt tcagaaataa taaatatata 300  
 ttaattaatt attattatta tattaatacg tagaaagaga ttacgtanat aaatacgaga 360  
 gaataaatca ctcttttaag acatcataat aatcatttac tgaaag 406

<210> 27664  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 27664

tgcttgtggt tgtttagttc ggaagaattt cagaacttta tctttcagta gaattcccat 60  
 gaatttcata aaaagggttg ttacataatg aattttgata tgaactaatt ctttgaacaa 120  
 ttcccatgaa tccgctaatt agaatgatca tgtgttattc taagtgatta tgacttggtt 180  
 tactctatag aatgatcata tattctaaga tagaagcagt ctagcagatt ttgaggaaat 240  
 gacataacct tttagatttt acgttataag gatatcatca actatccatt atacaagaag 300

ctcaagtaca agaggaggaa gtcagcgaat atattgtact atgcaattaa attttcatcc 360  
 taaatcttgt ttgtggtcta tacgagtcac ctattgattt aagatgcttg tttaacgata 420  
 gattaat 427

<210> 27665  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27665

aattcagctc ggacccggga tcctttaagt tacctgcagc atttagtcnt ttttcaagtc 60  
 ccaactcacc atataccttg ccctctaaag aaaacatgta attatgaatc tgattagatg 120  
 agaaaaggag aataggagaa aatgagaaaa ttcccgatca atagaataag atgaaagcaa 180  
 aaagggaaaa ttcccaatca aggaaaatgg gggaaaacaa aataagaaag agaattctcg 240  
 atcaaagatc ggaagagaaa agaagatata tgcagaaagg tcttatgacc agacaatatc 300  
 tgaacaatac agatttgtca ccaagtaaac aagattagaa tggaaaccac gacctanagt 360  
 ggtcctctcc ctttgattgc caaccaaact cctgtgtgtc agcgactttt tcgtcctgca 420  
 ctatacaa 428

<210> 27666  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27666

atanagcaca gcaacacaga atctaggtgt ccaacatcct tcatttcaat gggttaacta 60  
 ggttggaata gtgaaatata caatgaggta aatacgaagc aaactctcac ctacacaaag 120  
 tccataacat caatctaaac ttgctcaaac tgaatttaca cctaataatc caccgaatca 180  
 aaatttgact cctcaacacc caattatgcc ctagaacag ctatttgaac attttgatca 240  
 tatgaacttc tctctagcac agtccaagct ttctcgcaag tcctaaatga cattttaagc 300  
 tagtattaac tcactttaac ccccatctac cacagaattc agacttaacc ttacaactct 360  
 caaagcctca ctctttctac actcataaca taacattctc accttctaac cctacgttga 420

<210> 27667  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 27667

cgatcagctc gtcccgggat cttaagcacc tgcggcattt agtttgccgc ccagctcgcc 60  
 caggcgagca aggttgcttc ctccagaaga aacaaccttc tggaggaatc ttttggaggg 120  
 cccaagtgga cctgggttgct atttacaccc ccctttttac taaatgcacc cccttatata 180  
 tttttctgta attctttttc cgtaacgtta cgaaacttta cgaatttcgt aacgatactt 240  
 attttccttt cgcgaagggt acgaatcctt acggatttat gtatttactc tttttggctt 300  
 tcaaagaagt tacggaaact cacggattgc gcaaaaacac ctctttttcga tttccgccac 360  
 attacggaat ttcacggatt acgcaagcct gcttcctttt ggatatctga gacgtctcgg 420  
 gacttcattt attgcatgtc at 442

<210> 27668  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27668

tatgcatgga anatgtaatt atgaaattga gatgcctgaa ganacaccat ttcctagtta 60  
 accatgcatt angtaccatg ttcattatth tgttttaagt gaaatggggt tatgatccca 120  
 acatgggttg ctcgtggtgc ctaacacatg aaactaagaa tgtaatgtga aatttcacgc 180  
 ttcccccttc tttgtttttg ttttgtagag gaaaacgcaa ggatgagcaa acatgaaaac 240  
 aaatggtatg caattttgca gatcaaaaag tttgttgaac gcatatgcat gatgatgcca 300  
 tgactcatgc aaaatgtgag gctgaaatat gataacggac aaatgcagga tatgtccatt 360  
 atgatgttat gaagagatgc ttatgcgatg catgatatga atgcatttta cggaca 416

<210> 27669  
 <211> 376  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 27669

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ttatgtctgt ttggnctnc ttgnctctgg aaaattaatt gtttggtcat ttgcattcca 60
acagttcctt atgatataag ctaaggcaat ggccgttctt acgttttcat aagaggtaag 120
ggcatcagat cccactcccc tcgatctaca caagggtgtg attaaagctg ggaagcctaa 180
ttgagaagag ttggactgag cgatcatggt catttgtcca gagatcaaac cgacaatggt 240
catgtccatc cttgtgatta agccatagac caacctatct ctatctgtgt tcaaantnga 300
agtgcacgag gtaagagcta ggtagagta tgagaagacg cttcatctct gagccagggt 360
ggtaagatat tttctg 376
```

<210> 27670  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27670

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ctataaaact caagctttgg gcgtgaacag agcttcagaa ctaagagttt cagcaaaggc 60
ttaactttct catacaacag actgagctgt acagccactt tatgcagaac aagtcaagtg 120
tacactcttc agatgcttta cctcggtag atgaaaacac aaatgatcaa gatgtactgt 180
ttgactcttc aaacgctggg cataatgaag aggaagatcc ggaagaggct gaattaaaga 240
atgaagctnt gaaggctgct caaaaagcag tctctaaaca gagaatgttg actaatgctt 300
ttgacagtgc atgcttgagg ttccgccagg tggatgatgc cgattcactt acacggcaat 360
tagcaggatg aagtaacatt gatttgcaaa ccccgtagc ttt 403
```

<210> 27671  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27671

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atgagcactt actccactc aacttgtggt atacaccatc atcacctgct tttgcctcac 120
aatcatatga cggaacgacc tgacgaaacc tgtaatacca ttgatgggaa tctcgtctct 180
```

gacaatacat gaatccatct aggctgcaca ccctacactt tgagtcacct gtaacacagc 240  
tctatggatg catcacatca attgtgtgta caatgtcacc atttataaac gtacacctaa 300  
ctacaatcta gcagttccta 320

<210> 27672  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 27672

tctcatatgt ttacacgttt ggacatttac ataagctgac ccttattcct ggtctagcaa 60  
gctgaggatc ctactcatca tattagcgct gcccatattg ttagtataca cgatgcaccc 120  
ccctagtgtc caatgctgat catgatatat ataaatgcta tgcctcattc tctgcatgga 180  
gtggtgaaag aacggctatg ccacctagct caccagtacg ttctcaccta tgatgaccat 240  
ggcaggggtga tattgcagag aaccttcact gtctctacga ccagcgacat ttgataata 299

<210> 27673  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 27673

agtatgatag atacgctgga tcagacctaa gctcttcctc agaagcaatc ccattcacat 60  
ccttcgttcc tcgaaactct gaaaaggcag caggagcacc accaccacca ccaccagcaa 120  
acaaccctcc tacggcactc aaagaaccgt ccacagttgg aggcgcgat ccactcctaa 180  
aaatattaag ctctcgctca cgatcatcag cctcttgtct gcgttgctca cgaagtaaca 240  
tccctatctc cttctccaat tcatcaccaa aagaaccctc gttactccca agcataggtc 300  
ttcttcccaa ttcagacaac atttttcaaa atctcaattt gatcaccacc cacaatcat 360  
caacctcata tagcagaaac tgatcactac ccaccaccag aaatcaaacc 410

<210> 27674  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 27674

tgcatacgtt ttcccaattt agtttgngaa tcacctttct ctacctagnt aattctctct 60  
tttcataatc ctcatatccc ctgagttggt acagggatta gagcacatat cctcaatgat 120  
ctcgaatggca tcaatagggg gttttaacat gaggttacct ttacaagcaa catctaaact 180  
tgtcctattg tgtgaggaca ctctaccata gaatatatgg atcagtatct attgagtaat 240  
gtcatggtgt ggacaacttc tggtaatctt tctacgagcc aaaaaccttg tttgcgacat 300  
tccccctggt atagaaggta taaaaataat aaataatgga attctttgta agagctacaa 360  
aactgacaac tctattagaa agtagaatct tgcaaccttt ctcaagcgct ctcttggtct 420  
ctatgtacaa agt 433

<210> 27675

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27675

tgttttatat atttatatta tgnaactttt tgcaatttta aatcaattat taattctagt 60  
tatatgactt atacttaatg atgcattgta tcattaatta ttttttattt gataaatgat 120  
atataactta tgattaacac tgaatattat taatcattct tcaagaatat acatacacat 180  
tcataatctc tagctcttct gtgtatttga tctttaaaagc tcacaaaaaa tctttcttta 240  
atgtaattga catgacatgg acttgatttc ggcttatata tatataagtt aatttgagga 300  
cacgacgatt gtcttctggt taatcatcaa atttagttct taccaccaac attttttaat 360  
gacttgagtt gatata 376

<210> 27676

<211> 362

<212> DNA

<213> Glycine max

<400> 27676

tcgagtaaaa taaaagatta aatggtctta atctattaca attttttaaa tgataaacta 60  
aaaaaagttg acacattaaa attaataagg gaaaagttaa tcctgatact tttcttgat 120  
taacaaaaaa aaatttgaca ctaaaataaa tgagattagt aactatgcac agtaaaaaat 180

tcaatcacia atatttttta aaataattat tctaaactat taacatccgt ttagtagagt 240  
 aaacataaat gaaaaataaa taaattaaga tgaaaattta gaattaaagt atacaataaa 300  
 agtatgaatc cccatatcat gtatatcttc ttaattttca tcttctttta ttttcaaacg 360  
 aa 362

<210> 27677  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27677

agtttgatg attatagggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tggtgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatcct cgttcctctc aacactgggt 180  
 ccccatcaat cctcccaagc tttcccaaca tccaagtaat ataacattca gacagcacia 240  
 attatcacag ccaagcaaaa tagggcaaag gcagaaaact ctgccccaaa caccaaccaa 300  
 aatcacagct tttctcactt anagacccca gtaataattc cttcgttcca attcgttaac 360  
 cgttggtatg actcgaanat tntactggaa gtctctagta ctta 404

<210> 27678  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <400> 27678

tgtgcattca atatcctgat gaggggtgtc catatgttct caagattgga ctatatacat 60  
 ttgctgcca agtttcatgg tcttgaggt gaagatcctc ataagcatct taacgagttc 120  
 catattgttt gttccaccat gaagccccct aatgtccaag aagatcatat ctttctaaat 180  
 gcttttctc attctctgga gggagtggca aaagattggc tatactacct tgctcccagg 240  
 tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt ccctgcctct 300  
 aggaccactg ccattagaaa agacatttca ggcatcaggc aacttagtgg agagagcttg 360  
 tatgagtact gggaaagatt caagatattg tgtgcaagat gtctcacca ccagatttct 420

gagcaactcc ttct

434

<210> 27679  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27679

agctnggtgn attagnngna acgancttca agagtgcac cagtctcaag ggtcacgacg 60  
aagctcgatt agtagtcata ctaaagagca gattgaggat attttaaatt caaagcagag 120  
attaaagggg gaaaagaata tgcccaagga agatctacat attaagcagg ctgcagcgct 180  
ggttgtcaaa cttgaaggaa attctctgtt ctcatctgga agtattgctg gagctgcac 240  
aaaatactct gaagcttttg cattgtgtcc tatgagatca aggaaggaga gagttgttct 300  
atacagtaat cgtgctcaat gccacctttt gctgcaacaa ctttggctg ccataagtga 360  
tgctacccgt gcactatgtc tccataaacc tgtcaatcgt catgc 405

<210> 27680  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<400> 27680

ttgaagggaa tccattcggg tgctgagttg ggagatgttg cgaatttaaa catggagaga 60  
ctcgaagcag ttgttggtat ggaattcttc agtggtgttt ggcatgtggt tgggttatta 120  
atctgtattc tgtatgtatg tggctaagtt cttgttgttg attgttggtt ggtgtgagac 180  
tcagtgattt catgagtaag atgatccagc aaatatatac tacttttata tgtggtatga 240  
catgggggtga gcttaataat tataaaataa atatttattt tcacaaatag gttttgaaat 300  
aactgtgaat cataattgtt gtacaaactt gaaaatataa gggaaagttg cttttgtcga 360  
tacatgctgc acgtgttgat tacgttatgt caattgacac aaaacaaaac agcactggtc 420  
ttgcaac 427

<210> 27681  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27681

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actggaagga atcagccaga tgggtggagta ttccatccca atttatccca tgtgcatgcc 120  
atgtaagtta tgttgcataa tctgcattag caaacaaaacg cctaaacctt ggaatgatca 180  
gaagatacta ttacaccttt gctagggggc ctttctttgt gctttcatca ctgctgaact 240  
catcatcatc cttcactttg taccatgata cccacacctt gnggcattta tggagttctt 300  
caaactcatg tctgtgcaat atgcaatcat tatagtattc atgtatnttt tatactccat 360  
acccattaga cacaatatct tcttcgcctg ataataactt 400

<210> 27682  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 27682  
tatggtaaaa tctgtgacct agccatgttc taagtctcta cagaggccat tgcctccctt 60  
gccagttatt atgaccagcc gttgaggtgc ttacttttg gggacttcca gctatcaccc 120  
atgggtggaag aatttgaaga gatcctagga tgccttatag ggggaaggaa accatacctc 180  
ttctcaggat tctatccctc tttagctaga atttctaaga tagtccaaat ctcggcgcag 240  
gaattagacc acagaaagca agtaaaaaat ggggtggttg gagtaccgag aagatgtttg 300  
gaggcaaagg caataatctt ggcaggtaga ggcgaatggg ccccgttcat agacatccta 360  
acactattga tcttcagagg atttctcttt ccaaagtgtg atgtgttagt gggcctagca 420  
gcgatcg 427

<210> 27683  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27683

ttagtttgtt tacangccaa agatctttga atgccaaaaa tgagaaacct ttccatgtat 60  
cagagcacca accacatgtt ataaatatta gttgaccaat attaggaacc atagtgccaa 120

acttgttggt ttaagtgcac gttacttttg acatccataa aaaatatacct aattttcaaa 180  
 caaaatttga ctttagtggc ctgattatac aggtggatag ggtagcagct gatgcaaaca 240  
 atcatgctac ataagggtga agaaaaacgct cactgaggta attgacgtta ttaattgaat 300  
 cctcctcctt tctaaggaaa tctgcaagtt tacattaaat ttcaattttc ctatcctcta 360  
 cagataacgc ctagtgcgaaa tttctgcac cacaatcattc t 401

<210> 27684  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 27684

atatcattat gaatcacgac ccaatatggt gaagaaaata ggttgaaatc tgtttgggct 60  
 aggagccttg tgagatttca tgctcatgag agcatgcttg atttcctcct ttgtgactgg 120  
 ggcagtgagg gcttccttag cttcttggct aaacataaga acattacgaa tatgaatgac 180  
 aacctcaaag gagttgtggg gaaggcaaaa gagattctag aagtaggatt aagcctctgc 240  
 cttcaagatg tttgcatccg agcaccaggt gccatcatcg agcttttagat tgtgaataat 300  
 gttacgatgc ctacgcacaa tagtttgagt gtgaaaaaac ttagtggtgc ggtagcccg 360  
 tctgatccag tcctcacac 379

<210> 27685  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27685

taagtttagg gatggaatac ttacttggtg gtgatgaaca aaagcgcaaa acggaatcaa 60  
 aaaatgcaaa aaaggatgac cctagggctg caaatcgtc aatcccgtgg gtatggcttt 120  
 tgaaaggggg gaaaagaagt ttttgaatgt aaaaacgccc cccctttcgt catttttata 180  
 atttggtgca cgggtggctc gccagggcga gctaacctgc actttntttt tttttttttt 240  
 tttttttttt gaggggaaca ttaaccatgt cccctccctt ctcatggatt agcattttgc 300  
 ctaacttgaa ctacttagg gtaaaattaa gcgttgatta cttattntat tattaccctt 360

ttcctttnta aacaaacaaa tagtaaaaga aagctgcaa

399

<210> 27686  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 27686

tcatcctcag atccctcttg ttgggctttg cttaatttag atagccctcc taggtttaga 60  
ctaacttaaa ctaagcttca tcctcagatc cctcttggtg gactagactt agcttaaata 120  
gcttacgaaa gtgtcatacc ctaatttcgt ccgggggatta ttatttgatg atatacaacc 180  
tttgattggc cgcttcgaga cacttggcgt ccttggttgc acaatgaatg aagccccgag 240  
acgtgtcaaa aatcaaaagg aagcaagctt gcgcaatccg tgaaatttcg taatgtggcg 300  
gaaatcgaaa agaggtgttt ttgcgcaatg cgtgagtttc cgtaacttct tcgagagctc 360  
agagagagta aatacataat gcgtgaggat tcgtaacctt gcggaaggaa aataagtatc 420  
g 421

<210> 27687  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27687

agacacgagt tagccatggt catagaanac ccanggcgaa ngngagcncg ccacccggcg 60  
agccacnaga gtcgaccngc aggcangcan gctcgnttat ccaaggcnca acnngagggc 120  
gaagctccng gcgccaaggc ccacccccca cnggaaggcg ccggcgcnaa ccncaacacc 180  
caaggcaacc gcagcacccc caaggcggaa aancaccanc aaaagacccc acnaaagcac 240  
aaagagccag ccnccaaaga agcnccacaa gcaagcagac atcaagccgg aancaaagca 300  
caagagcggc aaagaggcgc cccggaaacc accaggaagg gcccggcaca ccaacaaaac 360  
aacgagggcc accaaacaac gccacggagg gccacacacg cccggcgcca aangccggca 420  
acaagaggca agaaagcccc caccggggag acgagcaaca agagcgagaa ncgagaccca 480  
cggcncagag 490



<210> 27688  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 27688

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tgccctgtccg atgcagcagt aatgatggcc cgagttatgt tgggtaacgg ttacgaaccc 60
ggaatggggtt taggcaaaga caacggcgcc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atggtttagg ctataagccc actcagggcag atgtaaagag aagcatcgcg 180
ggaaggaaga gtgggggtca aggctcgtgg ttgagacaag aaagtgaagg aagcccgccc 240
tgccacataa gtagaagctt tataagcgcg ggtctgggag acgaagggtca agtggtcgcg 300
atatacgagg atgatgttcc gaggatattg gatttggtac gaccatgccc tcctgatttc 360
cagctgggaa attgggagtg gaggaacgcc ccgacattta cgcagcgagc ataatgtaaa 420
ccttta 426

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<210> 27689  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 27689

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actacatagt acccaaacat taaattaaca agaaatcaaa gcaacaaact gaaagaagca 120
aataattact caaacatgtc ttctacccta gggttttgca taaacagaaa ttaagaagag 180
aagagaagac ttacttgagg tgaagataat ggatgaggaa tgcaatgcta ataggaggt 240
aatgataagg acagaggtag aaatgtgcaa ttatagtgat gaaacaaaaa gtaattgcct 300
taagcaatta tgttctcttt ttaaatttac gagttgcttg gtaagcgaga gtgtcacgct 360
aagcgagcac tctgtgacat ttgagttttc aaaatttaaa accacgtg 408

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<210> 27690  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27690

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ctagtccctt gctttgctca caaaaaagaa gaaaagaaat caaaatcaaa atcaacctca 120  
tccatcccaa gaggggaaat aataataatt attgaaaaag aacacgcaat atattattct 180  
ttattcttaa taataataat tcttaaattt gaaaaaacat ttctgtccac acctccaagt 240  
tgctacaatc caacaaaaca tacaaagctg gttgttcttt atgtttctac aacctctttc 300  
tttcattccc atttcttgc aaaaggaacc atcacata gttacatacc atgagtatct 360  
ncaccactac caccaccct ctcttctgct tcaaccacta cttcacaag 409

<210> 27691  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 27691

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atcatttctg gcgctaaact gctgggagtt ggaagccatc tcctcaatta aatttctggc 120  
ttcagcagga gtcatgtctc caagggctcc accactagca gcactatca tactcctctc 180  
catattactg agtccttcat aaaaatattg gagaagaagt tgctccgaaa tcggatgggtg 240  
agggcaactg gcacatagtt ttttaaattc ctcccagtat tcatataggc tccctccact 300  
gagttgtata atacctgaga tatecttctt ga 332

<210> 27692  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27692

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attatcctgc tttgatgaat aggaagccta cggaatatgg agagaataag aaggagggag 120  
gaacccatgt tgtcatttcc gttcctacat gaccaaattt cccaccagct caacaatatc 180  
aatacttagc caatataagc ctttcttatt acccaccacc ctatcagcca agaacaccta 240  
atcatccaca aaggccaccc ctaaatacgc cacaaaaccc gcctgctgca catctgatac 300  
caaacaccac ccttaacacg aaccaaaca ccaaccaggg aaggaatttt ccagaanaga 360

agcctgtaga attcacccca attctgggtgt cgtatgttaa cttactccca tatctactca 420  
ataa 424

<210> 27693  
<211> 399  
<212> DNA  
<213> Glycine max  
<400> 27693

tcagtcttac acctctcatt cttattactt tttcaatatt gaaaaagtca taacaatgaa 60  
aaatgaaaag gtcgtcttat tcaaaacccc aaccaattat gaaatcccct atctcccact 120  
tcacacctcg gaacgcaccg ttcttataga gagaggcgct ttcacatctt cttaggctgg 180  
ggagaggaaa tgttcccatt ttttaggata ctccggggaa cagatatcca gtggagatga 240  
cgggggtgggg cctgtagctc agaggattag agcacgtggc tacgaaccac ggtgtcgggg 300  
gttcgaatcc ctctcgccc acaaccggcc aaaaaaggga aggatctttc cctctgtggg 360  
taggacaatc atgatcgggc tagcggaccc aaagctatg 399

<210> 27694  
<211> 185  
<212> DNA  
<213> Glycine max  
<400> 27694

cgatgggtcat acaaatttat tgacgaattg gaacaactgg agggaaaaaa tgaagcagag 60  
aattatcaca ttcgttctag aaaagccaaa cgtgtagtaa ttccgactaa taaatctaaa 120  
ttttgtaaga tgtacgatac ttatgatcct acaggagata ctgataacgc tgaagaaaaa 180  
aaaat 185

<210> 27695  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27695

agcttgctca ctgttgcatt ctccanatat cttgtgcata ttggcgaact tctgaggctc 60

ttttggaggg aaatatgggg agaaaatgca atccatcatg catttttctta agaacttgca 120  
 ggcatcacia ggagagtttag agtagctaga tgaggccatg atctttactg caattataacc 180  
 aactatgaat caagcacgta caataaaaca atttactctc aaatggttga ataagtgtt 240  
 acgatagatt ataggaacaa ttgactaatg ctacacagaa catattgatc ttctttaata 300  
 tttatataag caataaggaa ataattcatt atagagagta caaattgaat ggtactctaa 360  
 ttcatgagta caacgtttta gataacatta aaatcaaaat acattac 407

<210> 27696  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 27696

cggaaaagct ctgtcagctt cttcattcct tgaaattgat ccttgtctag taaggcgggt 60  
 agaggagcag ctaaggacgc gtaccctta atgaaacgac gacagaaccc cgataatccc 120  
 aagaaccctc gtagggcaca cgtattccga ggagtaggcc attgttgac cgcggttacc 180  
 ttgcgcggaa ctggttccac cttttttttc gataccaagt ggcccagata ttccacttgc 240  
 tgagttgcga aagagcacat tgataacttc atgacaaagc tatgggtcagc taagacttgc 300  
 aatatctttc gcaggtgtc aaggtgggtc gagaaggctc gactataaat caaaatatcg 360  
 tcgaagaaga cgattacgaa tttatgcata tacggtccca aggtctgatt catagt 416

<210> 27697  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 27697

atttcgtttt aatgtggctc tggaccaata tacaagggtga taaagaatac tgggtatcctg 60  
 aactttcttct attttccttt aaaactttct aaatatagca gaagattatt tttcacggaa 120  
 cattgataga tgggaaagtg atagctgtga aaaggctttc aaagaagtcc aaacaagggc 180  
 tggatgagtt aaaaaatgag gtggcactga ttgccaaact tcagcaccgt aatcttgtaa 240  
 agcttcttgg ctgctgcatt gaacgagaag aaaatatgtt aatttatgaa tacatgcccc 300  
 acctcagctg ggactggctt tcttttggtt ggaccctta cgattttatt ctaaacaatct 360

tagataatca gcatattgcg tatttgtagc ttatacactt acagcg

406

<210> 27698

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27698

tacttaattn gatcacataa aataaaatcc ccaacttata aaatctaata taattgnctt 60  
ataatatttag cccacattaa ttattggaat agaaaattcc aacaatctcc tacttgggct 120  
acatattgta acaattatat caaaaatcct taaccgtgca tctatatgct atttatcttt 180  
agagttccac cttaacaacc tgggtccatct catgtattaa taatggaatc gttgcgctt 240  
tcgtcactgc aacaaatgta actagacccc aatgaccatc acatcaatac actcaatgac 300  
ataggtcaat atagataagc gggctcatac ttaacccatg agctcataat ataccctacg 360  
gctcatgaga attctagggc cttcccttgg atctctggcc caatctactt ggagctcttt 420  
atccaatgcc ctt 433

<210> 27699

<211> 405

<212> DNA

<213> Glycine max

<400> 27699

agtcttttga ttctggaatc atttatecta tcttcgacag ccaatgggtg agtcccgtcc 60  
aggtagtcac taagaaaacc ggcctcactg tcataaaaaa ttagaaggaa gagctgattc 120  
ctactcgggt gcagaacatt tagagagtct gaattgacta taggaggctg aaccaggtta 180  
ccaaaaagga ccattttcca ctgccattca ttgaccggat gcttgaatgc ttggcaggat 240  
tatataggcg ctttataaga gatttttagca gagtagccct tccactatct aacttgttgc 300  
aaaaggagat ggagtttgac tttaatgata aatgcaaaga ggaactgact accacccta 360  
tcattcaggc acctgattgg acagcccat ttgagctaata gtgcg 405

<210> 27700

<211> 425

<212> DNA

<213> Glycine max

<400> 27700

tgagatgagg aagtgtagaa ggggtgaaact tctactttt attctttgac catagagtgg 60  
tacctggaga tatgtcgtgg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120  
cccaaaacca agcttgacca atcccgaacc aaccgggga tagtcagtca gtgagaacct 180  
gtgatgtacc taaacaggcg agtcctggc agtcaacaga taaaaggaac aaagaccaca 240  
gagcaaggag gcttgtgggtg gctggccagc tgtgaactat gatcgatatg tgggttatgg 300  
cctctggtaa tcgattacca aggggtgggtg atcgattaca aggcttataa atgaagacag 360  
gagactaaga tgggtctctgg taatcgatta ccaggggggtg taatcgatta tcaggcttag 420  
aaatg 425

<210> 27701

<211> 167

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27701

cggatatttca caccgcatat ggtgcactct cagtacaatc tgctctgatg ccgcatagtt 60  
aagccagccc cgacaccgc caacaccgc tgacgcgaac cccttgcggn cgcattaata 120  
taactttgta tcatgtatgc taaaccaagt atttccgaga gctcacg 167

<210> 27702

<211> 407

<212> DNA

<213> Glycine max

<400> 27702

ccatcaaagt gttatcgatt acacctcaac agatgtgact cttcatattt aaattttgaa 60  
aatcaaaacg tttagaaact ctggtaatcg attacaagta ttgtgtaatt gattacacaa 120  
gttaaaaatg atttgaaaat atttatcac tagttgtgac tcttgaaatt tgaaatctaa 180  
cgtttttaaa cattggtaat cgattacatg attatggtaa ttgattacaa ctttgtaa 240  
cagttttgaa aataatgctg gctattggta attgattact accttctggg aatcgattac 300  
catagagtaa aactctttgg aaaagatttg tgaaaaattc ttgtgctact aatgttttga 360

aaaacctttc tagtacttat ccttattgag tcttctcttg attcttg

407

<210> 27703

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27703

tactaagcta gtaatgctct ntaatgtcgt atggtaatgt catgtttttt catttgtaat 60  
taactctatt taaccgtttc aaaaaacttt attcaattat atcttaatat aattaatgcc 120  
attaataatt attttaacgt aacagaggaa tttaaaaggt aaggctatta atactctaata 180  
atttctattc acatttacca ttttttttct tttttctttt tatttttaac atatcattat 240  
tattggagat tgattgaaac aaagaatgaa acttcgaact taattatcga catttcagtg 300  
aaaacaaatc cgttactcat attgagtgtg attccaaagg ttgaaattga agtaaaaaaa 360  
caaagagagt aatacacaca attacaaatc anatcgagaa ggtgaaagat aacaattatc 420  
taggaggata aaaaattatg 440

<210> 27704

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27704

tagcttcagc ttactagtt gtctcaggag ttttcttata ggtagaatag atataccgag 60  
tagaaattcc agcagaaaga atcaggcgag cagcaggagc atccgcttcc accgcggaaa 120  
cctccaatcc atttatcaaa gctgtggcaa caacaagtgg tgagtgtttt cagaatttag 180  
aaaacaagtt attggataaa agatgttttc aattacacaa gatatgctag tgatgatatg 240  
gcacatcaag tatgcaaaag ctttccagaa tcaagatagc caaaaaaaaa acctacaata 300  
ataatagaga aacctggtat ttaggtctca aagatgcata gttcatcaag attaaacgct 360  
tatttaacat ttgaccagc tgtcttaggt tntacttctc tttaa 405

<210> 27705

<211> 392

<212> DNA

<213> Glycine max

<400> 27705

tcactagctt ttgctagttc tatcatctca aaatacatag tggactgagc taagatagtc 60  
tgttttctttg acttccaaga aacagcccca ccagggtatgc taaatatata gctgctggtt 120  
gcttttgaat catctgaaag agtgttccaa totgcatcga tgtatccttc aagtacagcg 180  
ggaaaacttt tataatgtaa tccaagattt atgggttctta taagggtacct cattaccctt 240  
tcaatagcgt gtcagtgtc cactactaggt ctactggtaa acctgcataa taatcccaca 300  
acataagcta tgtcgggtct agtacaatca gtggcatacc taagggtgcc aatgatactt 360  
gcttactcag tttgccgtat accttcacca gt 392

<210> 27706

<211> 402

<212> DNA

<213> Glycine max

<400> 27706

agtttgtatg agatacatc tcccccttc tcaagcaa atcttaatgct tcttgacatc 60  
atcaaaatct tcatgatata cattctcccc cttgttgatg atgacaacca cctgtagggt 120  
atgagcaaca acaaagacaa tatgtatctg catatagttt actacctctt ggttctacaa 180  
tgattgctta tatgagacaa ttgaagattt catatctttc atatataaaa agttgtctca 240  
taaaacaata gataatcctt cttactatct tatcttttat ctttctctaa cactttgtca 300  
acatcaaaaa caaatcatga ctagagagga gaataccact tgttggaatg tatgagagta 360  
agtgatacca ataggcatta taacaatcat tcaatattaa tc 402

<210> 27707

<211> 416

<212> DNA

<213> Glycine max

<400> 27707

tagatcttga actcaattat agcatcatgg atgcctttaa aatattacac tgccagttca 60  
aggccacgga cttttgatat caagttgatc tgattagcaa tgtttcccg agacaactca 120  
tagttccttt cattgctcat ccactccaac acctaacaga gaccatatat ccttgactct 180



agatgataag ggctcaagcg caatatcacc aactatgtaa ctaaaagcat atttccatga 240  
ctctatatatt tatagggatc aaatgcgata caggagacat aatgtgtgtt tgggccgcag 300  
tggcaccaca aaaatcacat ttacataga aatctggaag atacaatgag aggcattggcc 360  
atgaacacta ataataattg cgtctctttc accgcgccac aaaaccagac aacta 416

<210> 27708  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 27708

ttagtcttgt tcttgttatt taactcatgc atgccacact cgggtggttac ttcccgttcg 60  
tcatgtcttct atcaggcttg gcatacctga ttccaaaatt tggacagtgg ttccgtctac 120  
atctaggccg cggatcactc agacagtctg tacatgctac tggatgctga cccgcgccga 180  
ctgtctggga ccttgtcaag ggccagtgtc tagacagcat ggcttgtaag cgctgccatc 240  
gcgttaagac tcttgatctg aaccgttgtg tgcccaaacac tgtccctaac tatcttgctc 300  
atagatgaca tggcaaatac ctgtcatggg ggacgcagtc atatactga 349

<210> 27709  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 27709

gctgtccatc gagattgaac tgagctcttc gtcttttgat tagccagcgg atattgtgac 60  
taagtcctta agaggacca ccattccgac tatatgtacc aagctgggcg catatgatct 120  
atatgtcca tctcgatggg gagtgatgaa tattcttgca atttaaccat gtttggcaac 180  
ttatttggca gccttcttct gaatgctata ttgcattgtc actatcctat gcgatctgct 240  
ctctgtgtat gtctatatct atctttcgca ctctatatat atatgtagaa ggactgagaa 300  
gtcatgtcac atacctaaat gcttcagtg aactcaactc ggacatctga gggctgattg 360  
tgcatatctt tagag 375

<210> 27710  
<211> 402  
<212> DNA

<213> Glycine max

<400> 27710

atctagttct taaagaaaac ttgaagcagg gctttgtttg tcgaagcaat cttgtattaa 60  
tcttgaagca atgcttatcc tttgaagcag ccttgaatga ttcttttttg gcatcatcaa 120  
catcatgtat acatacattc acagattaca tacttgaata ctacttcgat cactcagtaa 180  
ctataaaagt tacgtcattt gaatcatgga agatccaaat agacacctgc taaatagaaa 240  
caatagagga agggagatag agagagattc tattatgaaa atatcagaat gaactaagag 300  
ttgatacaat gacattacaa gctctttaga taaagctgag attacaatta agtcttgtgc 360  
ctcagttgat atctgctgca acaaacgtat aattcactca ct 402

<210> 27711

<211> 405

<212> DNA

<213> Glycine max

<400> 27711

tagaagggga ctttatttta tttttgaata tgaataacat aagatttgca cgaattcaaa 60  
cataaaatca ttccaaacat agaaataaca ttaaattaac ttcagcagag tcgaaagaaa 120  
tagaattagc atcaaatagc acaactaagt gatgctaatt ttgtgacaag gacatattat 180  
cttcatttc gatgacatgc ttactaaaaa caggtaaaat ttctattggc ccaaattttt 240  
tccagtagtt agaatacact aacaccttga acacatcatc gctggttctc agttgaataa 300  
tttcgaattt gataattggt tctaaatact catagtgact tggttgcaaa aaaacaatcg 360  
ccttaccgtt tgtgtttaat gaataccata aggtggaatc ccatg 405

<210> 27712

<211> 197

<212> DNA

<213> Glycine max

<400> 27712

gttgtgagtt actaagccaa ggatgagagt gatgacgtat tgcaagtttc gagtagcaga 60  
ttacatctgg gaacaatgaa ttgaatatat atgatgacta gctgaggatc acgctattcg 120  
aaaattaacg ggggatcaca ctggtatatg agaacatgaa tatagaaaaa gattacatct 180

tcgacataca gcatatg

197

<210> 27713  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 27713

cacacgttgt actttgtgtc gcaccggcga tggcgcgcat catacattcc acgtactcaa 60  
cgcgcgcata aaccacccat tcaatgtgtc ccaagtcac cagagctcac gtactccac 120  
gtatcccata tgctcgtatc tcgcagcacc gttaccacat catatgtggc agg 173

<210> 27714  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27714

agtcttaagc ccgagggtcaa accacgaatt gaccaatcat gtcccttgtc ccgcttcagc 60  
tttctccctc ttttccgaat caaaaccccc caaaaagtac taagaaaaaa taaaataaaa 120  
aacagagaaa cttaaaccac agattcaatt caaatcccgt cctcttcatt tcagatctca 180  
taaagaacac gaaacagtgt aaaacacgcg ctctctcttt ctcttgaact ttcttcttcc 240  
ttttcgtttt ctcaactctc tgttcttcat tcacccccac acattattct tagggtttcc 300  
aacattntct ccatttccct ttattttttc atttttataa ttttcgaatt cgggtgttga 360  
attgagaaaag cggtttagac gattccgatg t 391

<210> 27715  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 27715

gttatgcaag aagcgtcttc taggcattct ccaaataatca aataatatta gatagtacct 60  
gagccaaata gcccccaat gctgggccaat tgatcaaacc tatgccccaa gctgcgctga 120  
cctaaaatca aatctcactt tcgattatta ttatggaaat gtagttctaa aatctactac 180  
tataacagag gtggtgatgc ttacagttga gagtcctata ccttggtgtt cttgtcgaaa 240

aagttcatag gcataggcct gttaaataga ggagttaggc acacagaagc ttaaattggaa 300  
 gcgtgaaagc gatcgaacag ttatatattc aattgtgcac acacattcaa gacttgtatt 360  
 ctgaaacatg agagtgctaa ctttgatacc t 391

<210> 27716  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27716

agtttccatg ttttaattacg agcgtgtcga tatactacgg gacacaatca gacatccgag 60  
 tccaaagcta ttgtcgtttg acttttctta gagctatcgt tttcgatttc gagcgtctcg 120  
 atatattata gggctcaatc ggacatccga gttaaagat attgccgctt gactattctt 180  
 agagattccg ttatcaatct cgagagcttc gatataattac agggctcaat cgaacatccg 240  
 agttaaaagt tattgtcggt agatttttct cagagcttcc gttttcaatt acgagcgtct 300  
 cgatatacta cgcgacacaa tcggacatcc gagganaag ttattgtcgt gtgactcttc 360  
 ttatagctgc cgctttcaat ctgagcgtc tcgatatt 398

<210> 27717  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27717

tgcttgagca aattcaaagc actataactt ttgattctta tgtccgattg tgtcccgtat 60  
 tatatcgaga tgctcgtaat tgaaaataga agctctgagc caattcaaac gacaataact 120  
 tttgactcag atgtccgatt gtgtcccgta gtatatcgag acgctcgaaa ttgaaaactg 180  
 aagctctgag aaaaatctaa cgacaataac tttttactcg gatgtccgac tatgtcccga 240  
 aatacatgga gacgctcgta attgagaact gaagctgtga gcgaattcca acgacaataa 300  
 ctttagactc ggatgtccga tngagtcccg aaatatatct agacgctcgt aattgaaaac 360  
 agaagctctg agaaaa 376

<210> 27718  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27718

tatcaagcaa gcttcagtgt tagcgacaaa aggaatgtgc acaatcttaa cctcttgaaa 60  
 tttcattttg cctctattat gtttgaattg ctaacattta aatttaagat aaggacataa 120  
 agaaaggaat gaacaaagga tattcctctt gggtcacttc ctcaaaaaga agatacaaat 180  
 gcagntgttt gtactttttt tgttgttgtc tgactctgct attcctctct ctaaccaaag 240  
 catgccatgt tgctctatgc ctagatgtga gacaacgggc atatcaagaa agcgagcatg 300  
 gatcccacaa cggatacttc actaaagtct atataaataa agactcaagt tataaagtga 360  
 agtaaagaag tgaaatatga agtgaagcat caaagtgaaa gaattgttnt ctacaagtca 420  
 ttggacaata cattcta 437

<210> 27719  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27719

atcttgtctt tattggggtt gtgaattgct tcctctcatc attctcttgt ttgcttaag 60  
 agtgcgtttg tttcactgaa taaccattca tttgtttatt tgtagttctc tttttactat 120  
 aaaaaaattg agttttttta tgtgtgtgtg tgtgggcgcg cgttttatth ttggccatctc 180  
 attatctcca actccccctc aagccgaaga cctgatacta atagcgtgaa ttttgcaaga 240  
 ctggacatta ataataatca ctatgataga ctctgatacc atcttaagaa ttggatttaa 300  
 gtctaactta atcccaaaag ctagctttat gaaagcaggg tgtctoctac ttctgtacaa 360  
 tattntggcc ggatcactag tcaat 385

<210> 27720  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 27720

nttatgtggg atacccaatg taagcatagt ttccagttca ttattgtaaa attgacaacc 60  
gctctagtgt tagttttgcc taacccgaga gaacccttg aggtgtattg tgatgcatca 120  
aagatggggt taggaggagt gttaatgcaa agtgaccaag tagtggccta tgcttctaga 180  
caactcaaga ctcatgagaa gaattatccc acccatgac tggagttggc tgttgtgatt 240  
tttgccctta atatgtggag gcattacctg ttgggctcca agttttatgt gtttagtgat 300  
cataagagca tgaagtactt gtttagttag aaagagccga acatgcgtca aaggaaatgg 360  
ttagagtttc gtaaggatta tgactttgag cttagctacc atcccggcaa agccaatgta 420  
ttggttgatg ccttaa 436

<210> 27721

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27721

gggatgcgag cttttgctat ttgatatatg aatcacttgt gtgaccactc tccccaccat 60  
gccctgttta gcctcttttt gtgcttcttc ttcaagttaa aagaaatacc atgcaccagg 120  
atactactc gttttccacc ttgtctgctg attaacaatga tgggcgcttg ctgatgacac 180  
taggatatga ctgttcaatt accctagcac tcggattccc tctaatatct tatctctgta 240  
gcttcttcat cgccccctta ttgttggtac ctgccaactc agtcttgcta ttatcgtcta 300  
ctgttttggc aaattctggc gtgttaaccc attactctgg atttccaatg aatatcttat 360  
gtaaggtgag acccattatc ttagcatatn tcacacca 398

<210> 27722

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27722

tccaacttat gagctaaaac aaacaagggt gttctctctt tcaagtgtgt gcttagaaaa 60  
atcagagaga caaaagggtg agcttattga gagagagaga gttagtaata aaatatagta 120

gtaaataatt ctaaaaagtt gcttttgcac gcgtgtggaa taaaataaag caagacaaat 180  
 agaaaattct gatactgttg ttaggtgata tttatgcttg gcggctcacg ttttattccg 240  
 accttaggga tatactaaat tttacggaaa ccataagggtt gttttaatgt ggtaattatt 300  
 cttggagatt aatgtgtatt atgggctttt atattatagc tacaactttc tataaatatt 360  
 aaagtgtat tcgtatctcc ttctttactt anagcacctt ttctttcttt cttcttaaatt 420  
 cttttttaat t 431

<210> 27723  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27723

agctntgttt atattggcta ttaaattgcac ctgaaattga gaaaagaaaa atgtgggttaa 60  
 acaatgtaat actatggatc atgactatat atcctattca attatgcttt atcttaattt 120  
 ttatcaacca aacaattgaa taagttatct cttcactcca tcttcatcca ttccaccctc 180  
 tgccaccatt ccaaattgtag cctatatgat aaaatcctaa attctggctt ctttaaaaaa 240  
 attaacatta tattcttcat ttgagcttgt taaattaatt tacacttaca tacatttttg 300  
 gtccttgtga tttagctttt tcgctctttg tccttgcata ataaaaaatt gatgggtactc 360  
 cttacaattt atgtttttt 379

<210> 27724  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27724

atcttgagat aagggtctat cattgaacct ttgactattt atccatcttc cttggggctt 60  
 gactcaatgg ttcctttgaa tcctttgtac catggatcca ttggcaccat tgtctcccca 120  
 ctcaataaac gcctaacatt ggcaatgatt tcccttggat tataattggg aatgtaagaa 180  
 ctgcagtcta tcccaattcg ttgactacca ttgacaagaa ccaatgggtat tactgggtatg 240  
 tacctgtaag gccagacaac aaaaattatg ttttaaggac acatgcaaatt gcagtagaaa 300

agacaaacag actctatcaa ctgaaaaact gtgtntgaat accatacaca aacaagggct 360  
aaattgtaga tgtttcactc tcaaccgcac catcaaagat actgacaaaa acatgttgat 420  
g 421

<210> 27725  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27725

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gttgagccat gttctcagta tgaaaattag tagtggaatg ctcaaaatca gaatattcag 120  
aatcaccctc aacagaatgc tcagaatact caaaatgcac agaatgcaca ctatgcctaa 180  
ctaacttatg aaaggttcta tctatttcac gatcaaaggg ttgtaaatca cctggattgc 240  
ccctagtcac gcactatatg caacaaatag tgtgtttctc aacaagcacc taacaagggg 300  
gtaaaactac gactatactc aaacgatatc aaaatgagct gaaattntgt taggaacacc 360  
ctaagatcat gaaaagatag cacanaanat aggacaataa tacttgaaaa 410

<210> 27726  
<211> 429  
<212> DNA  
<213> Glycine max  
<400> 27726

gtactatgtt ctacacgaat aaaagctctg tattctctag atgtagtgca ttgctcctat 60  
ttgtatccat gctagtgtgc tatcatggat tccctctgaa ataattattg ttctctaaat 120  
ctctcccttt atgtagaggt gctatcatgg attcaacatt atgttactgt gctatcgtgt 180  
caaatactgt caggagtcca acatcgcatt gaaaaagaaa cttactgtgt cacttaagcc 240  
atgatgctta cccacctatt ggactagtta atcgggctgg gctctcctct ggtgcgtaaa 300  
tcacaacaag tggagttact gttgagagtc acgatatgca aatgagtctc tcatctcttg 360  
caggcttgct attgtgaata ctatgccacc aaaagatacc ttatactatg ttgagtagac 420  
aaagacatt 429



<210> 27727  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27727

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 gcgactgggc cctttcttcc cttcacaact tgagttcatt attgctaccc catagagctc 120  
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctt tgttcaaggg 180  
 ctcttgccgt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
 cagccaactt gaacttctcc ttggcgagtt ntgcctttcc taactcgctt ttgagagctt 300  
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ttaacttgg 360  
 cgagccaatc taaacctcgt atgcgaactt tc 392

<210> 27728  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 27728

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 gagctagaaa gatcttataa gaaagtcaca aaccacttct ataaacccat gtaagcactt 120  
 ctaaagtccc tccagatctg agattattgc agtgggattt tgtttttcaa aatttctctt 180  
 gatectattt ccagatgtat tagaatctcc tgcttgctt gctttagaat gtcgaattca 240  
 aacagttatt aatgaattag tatctaaaat ggtattattt tctgcacaca tgggcggtga 300  
 attgcattga tgtcaggcat gtaactttta agggttttta tgagagaacc aaggatcatc 360  
 ccatttatag tactctaatt ttggagcagt ataagtgaat ctttctgcat tggaattgac 420  
 act 423

<210> 27729  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 27729

atcttatggg aaagctcgta cagggttctta aacaattcac cgaatggatc atctccagca 60  
acgatatttg acctatgact agattcaacc tatttctttg gacttttcta tgaatcctaa 120  
atggataatg atgtcataaa attaaggtaa tgttttagtt ggagttttaa cataagaaca 180  
ttgtcttatt actattaaac aacaataaat acctcatggg atacaagttt cacgtgatgt 240  
gttgggcatg caacaaaact gtcaagggtc tgccctcacat attgaatctt ggacgtcgga 300  
aatggaactt cagcattacc gtcataaact tttgtaacac tcaccttcac cacatcatct 360  
ccataaggca cactgtgtat ggtggaagcc ccttcaaata ctt 403

<210> 27730  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27730

ttgataaaaag aagaacaatg tatatattta cacttggtat tagattattg gatcataaaa 60  
aacaacaccg cacttgaaga cttatctact tcgctaaaac ctgtaaatta gcaacacttg 120  
gatatcatgc aatgcaagat tacaacgcgc gtcgtgaaat tcaatagcta gaaaaagcca 180  
tacatcgcca cgtacatatt gataactagaa agttctactg aacacatcac ttatcctctt 240  
tactaaaacc agttaaacia cactttaaaa cgggtgcaata cgtcaaagat taaagcatga 300  
gtgacttcga aagcacagct ggaaagaacc ttgaaattcg atgaagtggg cacacaaaat 360  
attaatggaa tcaacaaaaa cttgactgca ctctaattag ctaanactag ttatgcaaca 420  
ac 422

<210> 27731  
<211> 396  
<212> DNA  
<213> Glycine max  
<400> 27731

atcttgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60  
aatatgcacc tgtcgccaga ctctgtggtt tatgctcttc tgccgaccac cacacggacc 120  
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctacaacaa acatcctcaa cctcaacagc aaaatccgcc acaacaaaat agttatgacc 240

tctccagcaa caggtacaat cccggatgga ggaatcatcc caaccttaga tgggtcaaadc 300  
 cttcacaaac gcagcagcaa caacaacaac cttatttttaa aatgttgctg gccaagcag 360  
 accatacatt ccaccaccaa tccagcaaca acaaca 396

<210> 27732  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27732

tgtcactgct cactaaagaa naagaaagcc ctaccttcta acactaagag gaagaagatg 60  
 ccattaaagt ttttcagaaa aaaccagagg aaagaaagcc taggggacaa agatgttcta 120  
 tctgcaatca gtcaagacac ttgcgaaatg caaagaattg tccaagaaa ttagaaaagg 180  
 tegtcaagct aattttctcat cttcagattg gtgaatatga tgatatagaa tctatgtatt 240  
 cagaacagag cgatctacat gaagaaactg agtcggccat agatcaaata gattcttctg 300  
 atgaagtgtc ttcaacttct cctatacnca tcttctctat ccaagaagag ccgtctatag 360  
 ggcttgcaat tctcaaccc tgcgttgaga ttcaagtgtc agcatacaag atcgaaatac 420  
 ctat 424

<210> 27733  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <400> 27733

tgctagtgtt ttacgcacac cgccactatg cttatgcaca ctttccttcg aatatagtctg 60  
 agcatgtctg tgcgctcaca cccttgaagt agcgtaaagc taaccccgct actgcacttg 120  
 actcaactcc ctggctgcct cttcagagac tagctgtaag gtaatcgac cctgtgcgct 180  
 aagccttact gccataatga tgaagctgaa ctgaccgcac catgctacac ctatc 235

<210> 27734  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 27734

tcttagtctc agatgatgca ggtgagtttg tagctactct catgctctcc tctaaagact 60  
atagcataat ttctggcgct aaactgctga gagctggaag ccatcttgtc aatcgaattt 120  
ccggcatcag caggagtcac gtttccaagg gctccaccac tggcatcata tatcatactt 180  
ctgtccatat tactgagtgc ttcataaaaa tattagagaa caagctgctc cgaaatcaga 240  
tggtgagggc aactggcaca tagttgttta aatctctccc agtactcata caagctctct 300  
ccactgatgt gactaatacc tgagatatcc tttctgatgg ctgcgcgcct agaagcaggg 360  
acatcttttt ctaagaatac tctcttaagg tcatcccagc tcgtgatgga ccatgg 416

<210> 27735

<211> 399

<212> DNA

<213> Glycine max

<400> 27735

tgctttgctg ctattcetta agaaagggtc agacactttt ccctacttct gggagcagaa 60  
caaaataatt tttgttttaa gagtttttct gacaatattg aatcttgatg ttctgactga 120  
agattaaggc tagatctgcc tgaatttcaa gtagtcaagt tcccttgagc attttagatg 180  
tttcatcttt tctctagttt cttgtacgta taccaatgtg tgtctgaatt ttgtcttgcc 240  
accaggaatt gcaattaagt aagtttttgt ttttagtttg taatttctca tgcattgtag 300  
agtggctact gtaattgaga agtttgcagg gctcatctcg agtttagatt ataacttgat 360  
gatgcttgga cattataact cgtagaataa tataacatg 399

<210> 27736

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27736

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agcattgaaa ttnttctctg agcttctact aatcataagc aatagatttg aaaagagatc 120  
aaagcctttc aagcattctt tcacatctat ttctctagga tgacactgta ggttcaacta 180  
caattagagg ctggcttaat tccgagaggg ttaattcatg aacgaaacta caccttagac 240

attctctgac aatgggttgat ccgaagactt tgcattgtta tgttcagtgg agattttttg 300  
caggatatag caaataatgt tggcacagga agatgtcatc aaagaagata gacacctgcc 360  
attgataagt tacctcaatc tttaaagaag acagacactc tatctttgaa gaagttacct 420  
caatct 426

<210> 27737  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 27737

agtttagaga gagtcatagc agaatacctg gttcactggg tcttacgcat gcgcccgagc 60  
agatctaaaa gatacttgat gacaagggtg aaccaaggat actcattgga tatcatgcaa 120  
ctgggtgccta cacactatat gatgctagaa taatgatgat cgtgattagc aaagacgtgt 180  
cgatagagag aaacaaaagt gtgcaattag aaaataaatg tagttgacta tggtgaaaga 240  
aaggagatgt gtaccttgat gacaaacaaa gtgaagatga tgtaccatca tgtggagagc 300  
aacacacatg gtcacaaaga gagacaccag taccatacac actcagagaa tatgaattgt 360  
atcctgatac agcaatcact 380

<210> 27738  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 27738

tggagggaca accacatatt ctacgcctag agagttttct aacgaatggt atattcctac 60  
actggaacag accactcctt taacacacaa ttagaacaag tgaacgtctt cctctgctac 120  
tagaatatgt gttagatatc attatcactg cattaaatac attctcatgg gcaagtgtgc 180  
gagccacacag tataacatga tgatcagtaa ctaatacgta caacgaaact ctgacatatt 240  
actttttata tgaaacgtac attcacacaa atgactcaaa ctaatgaaca tgattacctg 300  
acaggtatta gaaacattcg aacaatcatg tggatcatte acagcacatt ctte 354

<210> 27739  
<211> 393

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27739

atcttatcta caaacacccc tctaatagtt aagctcactc ccatgccaaa atacatgaaa 60  
 atacttagct acacacacccc ctcaatagct aagctcacccc catgctaaaa tacatgaaaa 120  
 tacaaaaagg tccctactac aaagactact cataatgccc tgaaatacaa ggctaaaacc 180  
 ttatactact agaatggcca aaatacaagg ccaaaaagaa ggaaaaccta ttctaattatt 240  
 tacaaagaag agtggaccta accttggccc atggggtcat aaatccacca tgaggttcat 300  
 gagaacccta tggccttctt tagccgctct agcccaatcc tcttggagtc ttctagccaa 360  
 tacccttgtn ggggggtagg attgtatctc aag 393

<210> 27740  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 27740  
 tgcccagaga aggaatccac gtaggaaatg cttattatct cgaaagactg gaaagcgggt 60  
 tctaatagact cctctgcggc ctccacataa ggcatagagg atgggcagct caccaagatg 120  
 tcttctctgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180  
 agtgtagagg gaacaactcc cactgagtgg atccacggac gcccacacag acagctgtag 240  
 ggggggttaa tatccattat ttggaaggta acttggcatg tgtgagggcc tatttgtact 300  
 gggagatcaa tctctcccct aacctctcgg cgggtgccgt cgaaggcata aaccaccatt 360  
 gaactcggct ttatgtggga ggcattgaat ggtaatttct ccaaagtgtc ct 412

<210> 27741  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 27741  
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 aggttgagcc atgttctcag tatgaaaatt agtagttgaa tgttcaaaat cagaatattt 120

agaaacacca gcaacaaaat acccataatg ctcaaaatgc acagaatgat caggatgcac 180  
 actatgccta actaatctat gaaagggttct atctatttta ggatcaacgg gttgtaaatc 240  
 acctggatta cccctagtca tgcactatat gcagcaaata atgtgtttct catcaagcac 300  
 ctaacaagtg ggtaaaacta caactatagt caaacaatat ccaaagagc ttaaattttg 360  
 tgagcaacac ccttatatca tgatcagata gcac 394

<210> 27742  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 27742

gaaaccacg cttcggaaga tagtgatgat gtacaagccc taaacggctt attttgtttt 60  
 agcccttttt gtcgaagaga agctcaggtc catagccatc aaagtctgaa aagactatga 120  
 tgaactaagg gacgtcaata tggccacagc tgaagctttg gaacgagaaa cctagaatgc 180  
 cccgacggaa taacacgacc aaagcaaagt tttgatgggc tttatatgtc agcaatatgt 240  
 gagctcaagc tccgaaaagg tgaaacgaat catcacgggt cataggcatt gatttgaagg 300  
 acgagcta 308

<210> 27743  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 27743

agctgacccc atgctgggag acatggccat acaccaaggt cgctactatc aagactactc 60  
 ctaacgtcct gaaataccag ggtaactgag tagtctacta aaatgggcac tactcacggc 120  
 caacacgtaa gaagacctat tatcatattt c 151

<210> 27744  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 27744

cgcccagaga acgaatacat gtgagaaatg cttactacct cgaaagacag cagagcggac 60

tctaatagact cctctgcggc ctccacataa cgcatacagg atggacacct caccaagatg 120  
 acttcctcgc ctgataccat gaccagatgc cttccacta cgaattacaa cttccgggtgg 180  
 agcgtagacg gaacaactcc cactgactgg atccacggac gcccacacag acaggtgctt 240  
 ggcgggctaa tatccattac tagcaaggta acttgccatg tgtgaggccc tatttgctact 300  
 gagagatcaa tctctccact aacctctcgg tgctgccgc 339

<210> 27745  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 27745

atcttgatg tatttggttg tataattagc ctgttcatt atgcttttaa tgtctctaga 60  
 gggtacttcc tcgttgacat cttctgtctt gaatggaatt gccatgacag gtttggtgct 120  
 actgtctttg atatttggtg attgatattg tgttggtgga ggtaattccg actggattaa 180  
 ctcaccatcc ttcaactgcc aatttggtat gacatttggt gctggattac ctatgatgtc 240  
 ttgtttccaa gggtagtcta tctctttct gatggcataa gcatgaaacc aattcaagaa 300  
 aaggacatta attttgactc tttcgtacaa ttcgtagaac tctgcttgga tttgtttct 360  
 gcttgaccct tgtaatg 377

<210> 27746  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 27746

actccgctgc actaccgcag tattgtatta gctctgggta tttgatttgg gtaatataga 60  
 taggtacaag ggtgagcagg attttattac cacagattta tctattgaag ttgtatttat 120  
 ttctctataa atactttaat ttatataaaa taattacgca tcatctttct tgtttttcgc 180  
 actttagaac tccatacagc gtagcagtat tggtatgaga aaacatatta acatctgaat 240  
 tgtaaacaat taaaaacatg tacacacgta tgaacttttt gcgtgaaagt atattgatat 300  
 ttgaattgct aagatatata tatatatata tataactacta tatatatata tatattttaa 360  
 ttgtccaacc tttctct 377



<210> 27747  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27747

tcangtatgt cgcccagctc gcccaggcga gcaagggtgc ttcctccata agaaacaacc 60  
 ttctggagga atcttttggg gggcccaagt ggacctgggt gctatttaca cccccctttt 120  
 tactaaatgc acccccttat atattgttct gcaattcttt ttccgtaacg ttacgaaact 180  
 ttacgaatgt cgtaacgata cttattttcc tttccgcaag ggtacgaatg cttacggact 240  
 tatgtattta ctctttttgg ctgtcaaaga atgtacggaa actcacggat tgcgcacaaa 300  
 cacctctttt caatgtccgc cacattacgg aatttcacgg attacgcaa 349

<210> 27748  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 27748

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 atcattatca tcattttttt ttctccgtca ttgagggtgcc acttgagctg ccaggctctt 120  
 ccacctttgg gcgtattctt ttgaaagatt cgtgccacct ttttgcacat gttctgtagt 180  
 tgcacacctat ccgaagacat tatactgaca ctgcctaacg aaggcaatca ctaggtcctt 240  
 ccaagaattg actcgggaag gttccaagtt agtgtgcaa gtaacagcta cccagtaag 300  
 actttcttgg aaggaatgta tcagcaattc ctcatctttt gcgtatgcct ccatcttccg 360  
 ataatacatc tttagatggg tcttggggca agtagtcc 398

<210> 27749  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27749

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aacaagaaca ctttaattga ttacttaagt catctaactg attaaattgt tcttgagttg 120  
 ttttccagat gttggatgaa cactttaatc gattacttcg ataactaat caattacttc 180  
 attgaaataa tcaattacct tatagattta atcgattaca aacggttata attattttct 240  
 ctataaataa ccagcttggtg ttcacatctt aacaatcaaa aaatcaagag atcattagag 300  
 gataactcaat acatctcaaa aattacttct tagcctcaga atgagcaaga tntcatgctg 360  
 tcattataac atgagaagag aataaaagag ctttatatgt atncacaact taatcttttg 420  
 attt 424

<210> 27750  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27750

aaactaggcc caatcaaact ctgcatcatg tcaactgtacc cccagcatga accttgagat 60  
 accccgaaga ggtctaaaaa cacttgggac cgccgggtgga ggacaaaccg ctcatgacaa 120  
 gctatatatc aaatccgacc caccctggag ttactcattt tgataaaacc ttggatcatc 180  
 ctgctatcg acgcactcag accctcgact tatcaaggac actaagacac gagtccctggt 240  
 ggtgacgatg gtgcctactg tgaatattgt gcccatctac atagcctcct gaccactgc 300  
 catgatagat ccaaaatccc acctgatgat tatcactgcg gtcccattaa tcacctgata 360  
 attctacccc tggcgaccn 379

<210> 27751  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27751

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 gtgggcacga gaattttggg atctcagtct tgcgagaca acagtcatga tctactccca 120  
 gtgacacaac ggattatcgc atacaacggc taccagctg tcttgcaatg gctaatagaca 180  
 ggacaagtaa tctactcttc tgctcataat atagccattg gtttgaacga gcacctgttg 240

cttcgaacgg aagcatatac acatcgcaat atcaaggcct gggagggcta ttacacttgc 300  
 gaatctatgt gtgatcatga acattgtatc agtcgacttt tgctgcata tcatcaaact 360  
 tgtgtgnctc ctcatTTaca gaccacaagc accctagagg ctggattaac accccatcat 420  
 gatggagcgg cgtatgatat tgaagtTTgg atgctttgtc gacn 464

<210> 27752  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 27752

atcttgttca gcgtttatgc gagacagaga ccaacatggt agctatcatc gccaaagtacc 60  
 aagaagagtt aggtctagcc acggcccacg agcatagaat cacggatgag tatgctcaag 120  
 tgtatgcgga aaaagaggct agaggaaggg tgatcgactc tttacaccaa gaggcaacca 180  
 tgtggatgga tcggttttgct cttaccttga acggggagtca agaacttccc cgattgttag 240  
 ccaaggccaa ggcgatggca gacacctact ccgccccga agagattcat gggcttctcg 300  
 gctatcgtea gcatatgata gacttaatgg cccacataat tagaaatcgt atggaaattg 360  
 tatgggtctct cagaccttga ctggata 387

<210> 27753  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 27753

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 gccccacatt atttccatga cacaatgca taaatgatga tttggaaact tcatgcaaaa 120  
 ctggtcatgc atgcacctat gcagacactc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcag gattcattta ctctatTTta gtcaacccaa tgTTTccaaa atatgttgtt 240  
 ttatacattt gtgcattcat ccaagaccat ttcaggcgtc cgggatgatt tcacagaatt 300  
 cacccttcat gtgtacacac atTTTTTTTT gaaaaactag atatgatcaa tgattTTTTT 360  
 ttcgcagaaa agttggaact catatctTTT 390

<210> 27754

<211> 143  
 <212> DNA  
 <213> Glycine max

<400> 27754

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 cttataacat ggatcccttg acaatgttga ctctggcatc accagacatc ctcacctgac 120  
 catgccatcg agaacgccca cat 143

<210> 27755  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27755

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 gttggcagtg atattattga ccagccctcc gaaacctttt accgagatgt cttggggccac 120  
 atgggcctcg ttcaaaacct tcactagcag agcccgatga ggctcggagc tcatgagtaa 180  
 ctccaacagc gagaccctgg ccggagtttt gttgagctgc tcgataacct tgaattcgct 240  
 ctgctgaatt atacggagga actcgtctggc ttactctagc gacacctgct ttttaccata 300  
 accatccttt ttctcccgaa gaccttttac cangatatct ttatt 345

<210> 27756  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27756

atggaaaggg ctagacatga tacatgttan ggcattgtctt ggttcacgga aaaaaaggat 60  
 gcccacatt atttccatga cacagatgcy aagatgatga tatggaaaga atgtgcataa 120  
 ctggatcatgc atgcgccgat gaggacgact aagtgtcaaa ctttgatggt cgtgtcaacc 180  
 ttaggatcta gatgtattag ctctattata gatcaccct atggccccaa catatgctat 240  
 ttcatcacta tatgctttta tctaatacca agtaatgcgt gcggggaaa 289

<210> 27757

<211> 539  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27757

ggatcgaagc cgacgcggan gagacgaaag ggcgacgacg ggaaaaaaaa aaaannaaga 60  
 gaggaattga tgcttcgatn gccctagcan aaccngaaac nnagcaccgg acggcgggan 120  
 ccganagagc cgccggcagg catgcacgcc ngtccaacga cccgcgagac ggagaccaac 180  
 acgaaangca ngcgcgccga ccaccaagaa gagngacgac cagacacggc ccacgagcag 240  
 gggaacaccg acgacnacgc ccaagcgcca gcggaacaag acgcaagagg aagggggacc 300  
 gacaccgaac accaagaagc aaccggggcgg aggggaacaga cagcgagaac gcgaacggga 360  
 aggaagaccc cgacagcagg anaccccagg cccacgcgac agcacacacc gacaccgccc 420  
 ccgaagacag acacgcgcaa caaggcaccg gaaaaacaag anagacaagg ggcccacagc 480  
 aggagaaacg cgaggaaaaa ggccgggaca caccgcgga ccgaaagcag agcacccc 539

<210> 27758  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27758

gtgttcttac aatctcccat tctttagttc tgatatttcc aaatctatat gatgtgcatt 60  
 gatgttttcc ttccacagta cctgttctac aacatgcttc acaaacatgt tagtagcatc 120  
 ttttcaattc aaggcaagtt taatttcaat tagtcatgat aaacataaat tttttcacag 180  
 aaacataaaa aaatttctcc cccttttggc atcaciaaagc agaaaagagt gtgtatcata 240  
 gagaatataa acaataatag ttcaagaaac acaaaacatt gaaaaaaaag atatcatgtc 300  
 attaattaaa aagagattac aactgattaa gaaaacatag aatagcatag tcaaaatgca 360  
 gaaacaaata aacagagaac ataagatcaa gcctagatta tatgcttatg agat 414

<210> 27759  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

<400> 27759

agcttcgtat gctttatgaa gaatatgtta aacttggcaa ggaaacaatc cctaattccg 60  
aaaaggaact tcagcaactt aaagaagaga tggatgacaa atctcaggct cttgatgatg 120  
taattatcat aatttcctttt aagtagaaag ttgaatccct ccatacttgt tacttccttt 180  
cttgaatggt tgctntgtgg ataatgatga ttattatttt ttttatcaat tgtttagtat 240  
tatctatttc cccctttttg cttggtgtta acttggttta gattacacaa ctactgcaac 300  
tgtcagggtt tatgcgtttt agcacaagta aaatctgaca aggatttggt tgagacattg 360  
gtgcaacctg ttgaaaatgc tgaccggatt t 391

<210> 27760

<211> 436

<212> DNA

<213> Glycine max

<400> 27760

tgacgcggca gagagagaga ggaaggttag tggatttcag tggtgaaagc accacggcag 60  
tacgtagaag agaagagaag agaagagagt agtgtcgtgt ggtgtgtttt aacgtttaag 120  
aaatgaatga atattcctga gtggattgtg aggaagatta cgacaaagtg tcaagccccg 180  
tccaatgaaa cgacaataat acctacctgt cttagtatta ctaacgttta cctctctggc 240  
cagtacagtg actagtaccc actatattaa ttatataaga taaaaaggaa aagatgattg 300  
aaaataaaac tctaattaa tatgaagagt attttgaag cattatcttt gaatacaaag 360  
agtttatata tatatatata tatatatata tatatatata tatatctcag 420  
tcaggagaga gagtat 436

<210> 27761

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27761

agtttttaat atgttgaag gcttataaat ccaagctgca ctacgattgc ccgntgaac 60  
tttacctctt ctttaatctt ttgggctaata atcatttttg gttactgtaa atgggtctttt 120  
gggctgttgt ataaataaaa ttcttccgaa gccatttgag gtttaccttt cttgtccatg 180

tttctagaat gcatgatgaa acaaattttc caaacgagca ctcatcttctt atttaatgaa 240  
atgtccaatt ctagaggctct ctatgcattg aaatgttcaa tcatttctct acaggattgc 300  
cctagattac aagttacttg tctttattag aagtttcttt gntaagcatg acatcattat 360  
atTTTTTgca taatgttaac aatgctgcac tatgggtact 400

<210> 27762  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 27762

atctgttcaa ttcagttctg gcgaagctca gtttaaactt tctctttgga acaccctac 60  
aacgtatagc gttattgctg ccataaaact ctcatcatat aggagactat atttaaactt 120  
gtgaatctaa tccagactaa ggcacaaaact accttttggga tttgaagaga catattccag 180  
actctaaata tttgtaaaat cagaatccat gtgcatgata tcatatcctc tattcaattt 240  
catattctcg acaatctatt cctcataatt aggggtggga ataggccata ccatgctgta 300  
aaaggcctga gcctatccta ctgatggata tcgaagactg agcctggcct at 352

<210> 27763  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27763

agctcgaccc gggatcttat atcacctgcc gcatgcctct tttctttcat aacctgctac 60  
tgataacatt ctaatgcatg ctacattctt tgtgcttctt ttggctaaca tacacactag 120  
ctcaacttgt gaaaataaac actacttcgt cacaatcatg cattcaatcc gaaaacaatc 180  
tataacaccc atttcacaaa aagataaaaag tggttcactg cataatcatt atgatcaagt 240  
caaactgtta tgtatgcttc gaaacatgca tactagatat ccacaaacaa aacacaaata 300  
tatataaacg tagatcagaa tcaactaaaac aatgtactga aatataatag atatcatacg 360  
ttccaaaaag cangatcatc aggaatttac cagtcctgag aca 403

<210> 27764

<211> 433  
<212> DNA  
<213> Glycine max

<400> 27764

tctcggctca tgctgggaac gcctctagtt caacacttgt gcagttctaa gcacccaccc 60  
agaggggaag tcccccaagt ccaactccga atgcgactcg actggccggt aattccaaca 120  
cgacaaggaa cttccctccg aggccattgc cggaattcac cccgctccca atgacgtacg 180  
aagatcttct accatccctc atcgccaatc atttgccgtt ggtaactccc ggaagggtcc 240  
tcgaaccccc tttccgaag tggatgacc ctaacgcaac ttgcaagtac catgggggtg 300  
tcccggggca ttccgtcgaa aaatgcttgg cccttaaata caagggtccac acatttaattg 360  
gatgccggat ggctgacttt ccaagaggat cggcccaatg tgagaaccaa cccgctcgcc 420  
aatcatggag ggg 433

<210> 27765  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 27765

agcttgcttc atagagggtc aggaaggata aggcggccaa aggaactagt tctcctcctg 60  
agtatgacag tcaccgcttt atgagcactg tacaccagca gcgctttgag gccatcaagg 120  
gatggtcatt tctccgggag cgacgcgtcc agctcaggga cgatgagtat accgatttcc 180  
aggaagaaat aggtcgccgg tgggtgggcat cactgggttac ccccatggcc aagttcgatc 240  
cagaaatagt cctcgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
tgaagtccctg cgtgaggggt cagtggatcc cgtttgatgc agatgctatt ggccagctcc 360  
tgggatatcc gttagtgtg gaagagggcc atgagtgcga gtat 404

<210> 27766  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 27766

taatggaaga gaattgcata atgagtgtgc tagcattcga tttcttagag gtcgtaaact 60



gttcatcaat gactttcaac agatctctga ccttatcatg ctgggtcaact gaaccccgga 120  
tactagcgga tatgttggtt tttatgaaca taacggagag acgattagat ctctcccaact 180  
tttcataaag atcaacagca tctgggttcgc tagtttcagt aatagccggt ggctcatcct 240  
tccttataac atagtcaata tccatccagc ccagatgaag gagaaatctt tccttccaaa 300  
ccatataatt atcacctttc aaaatgggaa ggtcacaga tatattcata gattgtgaaa 360  
ctgcaaacaa acacacatgc tcattaagaa aatttgagac taaaaaatg tcatg 415

<210> 27767  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 27767

agcttgata atggctagac atgatacata tcagggttg gtttggttca cggataaaag 60  
ggatgcccc cattatctcc atgacacaaa tgcaaaaatg atgatttga aactttatgc 120  
aaaactggtc atgcatgctc ctatgctgac gctcaagtgt caaattttta tggctcgggtg 180  
atgctagggt tcacgattca tttctcttat tttaaatcaa cccaacgttt ccaaaatatg 240  
ttcttttata aatttgtgca ttcattccgag tccatttttg gcgtctggga aaatcttcac 300  
agcattcacc ctttatgtgt atacacattc tttcagaac tagctatgat cagcgaatct 360  
ttctttttaa gaagagttgg aaatcatctc 390

<210> 27768  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27768

ttcagactta aataactacg ttgggtctaaa tttctcatcg caccttatga attgtaggag 60  
caagggcaac acccttgtcg accccctaaa aaaatataaa aagggaag taaataattc 120  
tgaagtcaag ttgcacacac tcgattaaag gctgccatcc cttctgacgg gcgcgtgggg 180  
tgctaatacc ttccctatgc ataaacaact cccgaaccgc cttattttca aaattcgcag 240  
acctgttttt ttaggttttc taacgttttc cttgaataaa cattggtggt gaatccgctc 300  
atcttctccc ttggagactg ttgcacggcc ggcaagtgc cggatcgcg caagtagtat 360

aaaacggtaa gtgaatacca agtatcaaac tctcagggaa cttgttntac ttggtaaagc 420  
tgtgattcag taaa 434

<210> 27769  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<400> 27769

tttagcttgg atttcctttt agtagggaat ctatccttcc taagatggag ccaaaccag 60  
tcaccctcat taagaactag ctcttttctt cctctattgc ctttagttga atacaccttt 120  
gtttggttct ctatttggtt cttaaccctc tcatgcatct tctttacaaa ttctgaccta 180  
gattccccct ctttatgtat aaaagaagtg tccagtggga ggggaatgag gtctaacggt 240  
gttaggggat taaaccata gacaacctca aaaggggact gcttggtggt tctatgaacc 300  
ccactgttgt aggcaaattc tacatgagga agatactcat cccaagactt atggctgcct 360  
ttcagaagag cccttataag ggtggataaa gacctattca ctac 404

<210> 27770  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<400> 27770

tccatcattt cttctcatga aacttgaatt taaacttgat cttgaacttg ctgactcaat 60  
cttgaaatca ttcttactca atcttgaaat cattctttgg gctttttgtc atcatctttg 120  
tcatcatcaa aactacttga atcaacttga ttcacatca tgaagcttgc ttctacacat 180  
tatggaccog ctagtgagtt aagtcatttg attgagtatg caattttatc atgacctttt 240  
atattttat ttccctttc tctttaattc ctttggtgag ctcattgttcg ttaaagtttc 300  
attccgttac cattcgatat gtgggtttagc tttgaacttg tttcttttat tcagtgtttc 360  
gctcatgggt gtatataacc tttgtcacat ttgtacttct tg 402

<210> 27771  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 27771  
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 agactccacc aagattccct gggtagaggc ggacatagtc tgcctactaa gagtaaaggc 120  
 gggtagggga tcaaagatct gattaaattc aatgaggctt tgcttgctaa atggggggtg 180  
 gaggtaggaa ataatacaga tcagttgtgg gccagaattc tattgtctag atatgggtgg 240  
 tggaggagatt tgatttctga tatgaactgc agtttagact ctcttgggtg gaaagacctc 300  
 aaggatatct tcaagcagca gcatagcaac acaatttgca atcacctgaa gtggaagctg 360  
 ggatcggga 369

<210> 27772  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27772

tcagacaaaa gcaactcana atctaggtat ctaaaacccc tctatttagt ggattttcaa 60  
 ggtttgagaa gtgaaaatga gaatagagta aatttgagagc aaactctcac ctacacaaag 120  
 tctataacat caatctaaac ttgctcaaac tggttttgca cctaaaattc caacgaatca 180  
 aaatttgact cctcaacacc caatcttacc ctgaaatgg ctcttgccct cactttggctc 240  
 atttgttctt ctctcttgca caaccaggc tttctcataa gtcctaaatg acatttcaaa 300  
 ctaggattaa ctccctttaa cctgcaaata ccactaaatc cagatttggc ctccacctc 360  
 tcaaagcctc acttttttcc actcgatata ccatattctc actctctaac c 411

<210> 27773  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 27773  
 tgcatttatt gtttgccctt aagatgtgga ggcattacct atttggctcc aagtttgagg 60  
 tgtttagtga tcataatagc cttagtactt gtttggtcag aaagagttga acatgcatca 120  
 aaggagatgg ttagagtttc ttgaggatta tgattttgag ctaagctacc atcccaacaa 180

agccaatgta gtggctaacc ccttaagtag gaaatcccta catatatatg ccttgatggt 240  
tagagaattg gatctcctaa aadaatttac agactttatc cttgtgtgtg aggttacccc 300  
taacaatgcg agactaggag ctttgaggat tactagttaggag agatcagata 360  
tggccaaaag gctgatcctt ttctgaagac taagatagaa gct 403

<210> 27774  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 27774  
atgaaaagta tttgtgcttc tacttttgtc aatgatctct tccatactat aaaaaggata 60  
tttagacatt cacaagttca tattaaggg cctaaatgac tacactgacc ttctaatact 120  
ttgcttgctt aaactagagt tcaactcttg ttaaccacaa actcacttaa gctagaatgc 180  
atcttcactt aagctaaaat tccattacat gatgtctttg cgttaaaatt tgaattacat 240  
tacgatttac gttggctaag tgtaaccgaa taccaattat aatactgaat agaagcacia 300  
gttgtctccc aagagaataa tgcaaggata aacattcaaa ttaaaacctt tcggataaat 360  
atatttttgt gtttttatat tttaaactac ctacaatcaa aactaataaa aaaaaataga 420  
agatgtatt 429

<210> 27775  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 27775  
tagcttggtt ttcaagagag ccatactcat gattagagcg cctggcagca caacacatgt 60  
cggcattggtc ctccattccc ttgtgcggac atcgaaactg atacttgact agagacatgc 120  
gtgtatttgg ggtgatatca ccatgctacc cgttccacta tgacctcccc tggttgaaac 180  
ctac 184

<210> 27776  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 27776

ctaagcttga ggcttgaaac ggcgggggta ttcctcaatt ggaagaaata gactcttcag 60  
tgaatatgat ccttgcggtg ctgtttgcc aacgtgaggg caatatacat catcgaacgg 120  
tgcgttttga tccatctttg ttatcttctt cccatttgca attctcattt ttgcagttat 180  
acaaaaaccc catcattttc cccaattccc ttacaacagc tcgattctac catgctgcga 240  
tctaaattga ggatcaaata atgctattta gattggactc gaaatgggtg tttgacttgg 300  
atcctgtggg gataatatgg tagtagatag catatttgt 339

<210> 27777

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27777

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ataagagatt tcagatggac tttaatccta atcccacagc cgaccttttc acgagatctc 120  
tacttaaccc tttgggttaa tgatcggcca aattatgctg agttctcaca gccctacatc 180  
cccaaatttt gagataactc aaatttggtg tctttttgtg ccaaagttca tatggcgtaa 240  
ccttattcct tttgttagga attcgggttc acaagtaaca ggctgccaac atagcctcac 300  
cccanaatcc ttcacttgaa cctgaatagg ataacatgaa attcaccatt tctttcaagg 360  
ttctattctt cctttcggct acaccattc 389

<210> 27778

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27778

tcacaaaagt gtgtatggct tgaaacattc accgatgcag tgggtcaaga agtttaatga 60  
gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaaaaa 120  
atataactaat agttatgtta tccttggtgt gtatgttgat gacatgttga ttgcaggatc 180  
tagtatggca gaaattaaca ggttgaagca gcagttggca gaaaactttg aaatgaagga 240

tcttggtcca gctaaacaaa tccttggtat gagaattctc agaaacatat cagaaggaat 300  
 tttgaagctg tctcaggaga aatatataca caagttgctt gacagggtttt accttggaga 360  
 ttctaagacc aggaataccc ctttgggatc tcatttgaag ttntcaaaga agcaatcttt 420  
 gca 423

<210> 27779  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27779

agttcccagt catccaactg tgacagcaag aggtatcctt attattgcat cgagttcatg 60  
 tattatgaac taggggatca catattcaga agcacatatg aaaatagtgt gaatagacgt 120  
 agcacgttgc ctagtacaaa caaaatccta tattatcttt tcttggtata aaatgattgg 180  
 tgtgtctcac attaatatat agaatttttag taaccataaa tctaatttac gtgaacaaaa 240  
 ctgaattcta aattcatacc ttagagaagt tgcccgggtcc atgctgttca tcaatggaat 300  
 ctatattata ctttactacg ctgttcaatn ggctttgtca tgagttttta gtagaatggt 360  
 gaagggagaa ataccanaat tctatcca 388

<210> 27780  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27780

tatcaaacat catgtgaagt tggacgacct cactgttcag taaaatgctt ggctactagt 60  
 taaataactt agagatggac gcatgaaaac accctcctag gattcgaggt cttaatgggc 120  
 aaaagatgac aaacaaaatc gattggaact aagttttttc tgtcaacgtg aacctgtgtt 180  
 ttgattatgt acgacttatg ccaggtaagt tccaaatcaa aagctgcttt cgctggtcac 240  
 gaccaaattg acaacctgtg tttcatcggt ttgtttgcca ccaaaatgat agttcaaatt 300  
 atgtttgaat taacgcgatc ttttcctctg ttgcttttga ttaacactat ttttattagt 360  
 aagatgccgg atacgacatt tntcattctt tgtaccattt gaataatg 408

<210> 27781  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27781

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 tggttcttca tcctattctg cgctcatcgc aactgatact tcaactgtga aattgcttca 120  
 tctctgtctt gtaattccct cctaaccgct tccacgtgaa cctcccctgg taaaaaccta 180  
 cggagcatcg gtggtttgcg aacatagaca acttcaaacg gggtcattcc agatgacaca 240  
 tgaaaattgg tattatacta atattcagcc caagatagcc aaaggaccca aattttgggt 300  
 tggtcagcta gaaaacatct aananatggt tctaatacacc acttatgttt gcccatccat 360  
 ttgaggatga tatgctgtgt tcattcttcag agct 394

<210> 27782  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 27782

cttaatgaca ggatcggtg tgaatctttg gctaatttta tggatgcttg tattatgaac 60  
 atattatttt atttttatat aacaaggaac tcaattgatc cacgttgaat ctattcgctc 120  
 ttgacgaggt tattaggttt gggtagtaca gggtcttaaa cacatccaga ccgactaaaa 180  
 cccacgaaaa ttggctgatt aagatatttt tgcacctatt caatctacat caacccatga 240  
 atagtcccat atgataaatg atggtatgct gaaaaagaac attgtatttc accctccgct 300  
 aaaacaaaa tgacacatag ttattttacc ttttacacgt accagacatg at 352

<210> 27783  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27783

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gaagaagaag acaaaaacaa tatttatact gggtcggcca caaacctgtc ctacatctag 120  
 tccccaaagca acttgcggtt cttgagatctt ctttcaacct tgtaaaatcc ttacaagcc 180  
 aaagatccac aagggatgta ctctcccttg ttctctttga ataaccaagt ggatgtaccc 240  
 tccacttgaa ctgatccaca agagatgtac cctctcttgt tctcagtata acaatcccca 300  
 agtagatgta ccctctactt gtaccacana ggatgtaccc tccaatgtgt tgggacaaaag 360  
 aattctcagg cggttagtcc tttgaatctt tgtaa 395

<210> 27784  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27784

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 ttgagatcat catcttttgt atcatgaagt gttcttgacc attgagcttt ttgtcatcac 180  
 cttttcatca tctttgttat cattaaaaca tctttgaatc aatcttgatt gatcatgaag 240  
 ctttgcttct aacttggtat ctacggattt tcatgaaggg tgttgtttagc gcagattttc 300  
 tcgctcagcg gatggactga agcgggtgcac ttagcgggat gacccttcac ttatcgaata 360  
 tgcacagctc atactccttc cagattcttc ctgcgctca accgagaagt gttgcactca 420  
 gcggatggct cgct 434

<210> 27785  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27785

agcttctatt taagctgaac cattntatca ataaagacca ggtgagggtt attcagaaaa 60  
 ttagagggtta tctcttttat cttagtgaat gtgattttcc taaattcttg aatgattcaa 120  
 gaacaccctg gctgtatcaa aggacattca caaccttctg gtgttgccct cgctggaaaag 180  
 agtgattttt tcttctcttt catcttcacc cttgtttttt caaaccacaa ttccagaaaa 240



tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
 tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttt tggaatcacc 360  
 tcatttggag ccctgtagct tcagatattg ccatttctat att 403

<210> 27786  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 27786

tgggttccta ggctagaat tgcattcggg cattcatttt aaattcttca tgctgtccct 60  
 atacatataa aacagtccca caacccaaag ctcaaaaaac catgctcata tgcgttgag 120  
 gcatttcacc gagcacttgg tgggcgcatg tttaggcacg aatatcaaga gaatggggac 180  
 aatgtggcac gcgccattac ttcagaatac accctaggcc aaggccatcc cttacaaccc 240  
 ctcaattcaa caaaaacaag caacaatttg aggataaatc cctcacgttt cttagcaaac 300  
 acatgcaatt tagagcacca aaatacatca atggaaagct agaaagccca agaatgaggt 360  
 acttacttgt tggagacgaa taatagagca taacggaatc aaaaac 406

<210> 27787  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 27787

agtctttaac ttattgtctt cacaataat catcacacag cagaaaacta acaaattctac 60  
 ccatcatatc tgccaaaacc ccataccac gacaatcaaa ggagaaagaa gtccacccaa 120  
 acctgaaatt tcgaagtccc actcgtagct cagcacttc acgactccaa aaatgccctg 180  
 ctttcgcatg ttggagcata aatgagcacc aaacgttga gctttgttgg ggtttcaatg 240  
 gagaatggag gagaaggata aagcaacgtc aggatgacgg acagctgtct gaaaagtgtg 300  
 ggggctgagt gaagagagag aaaag 325

<210> 27788  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 27788

tcgaagggaa gagagagacc aatcacgagc acatatcttg atcttgaaag aggagttggc 60  
tgcttgctca aggtccaaaa gaaacttgtc tcagcgttta tgcgagacag agaccaacat 120  
gttagctatc gtcagcaagt accaagaaga actaaatcta gccacggccc acgagcacia 180  
agtggcggac gagtatgccc aagtgtacgc ggaaaaggag gctagaggaa gggatgatcga 240  
cgcgttacat caagaggcaa caatgtggat ggaccgattt gctcttacct tgaacgggag 300  
tcaagagctt ccccgattgc tagccaaggc caaagcaatg gcggacacct actccacccc 360  
cgaggagatc cacggactcc ttggctattg tcagcatatg atagaattaa tggcccatat 420  
aattagaaac c 431

<210> 27789

<211> 402

<212> DNA

<213> Glycine max

<400> 27789

agcttatata catctgcaac gtgaattctg ttacaactga aaagataact aactaattca 60  
gccaactaac taactatttc tggttaaagct gtttatactg ctaagagccc ccctcaagct 120  
gggaatggat attcatcatt cccagcttgt tacaaggagg ctgaaagggtg gctgggtggta 180  
aagcttttgt gaatatgtcc gcgagttgca tggaagatga gaccggaagg agctttacga 240  
gaccgcgaat gactttgtgg cggataatat ggcaatcgat ctcgatatgc ttagtgcggt 300  
catggaaaac gggatttggt gctatctgaa ttgcagattg gttgtcacia tataagggtgg 360  
ctggctgaat aaatgctaca ccaatgtctt ggagaatata cg 402

<210> 27790

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27790

tgctcttgat tnttctcag ttctttaaca agcttttaac aatattcttg gccttcattt 60  
aactgtcttt gggcttggca gccacgctca acaaagtact ttcgacacct actgtacgtt 120  
gatttcacca atgctgttat gggaatgttg cgacaatcct ttaaacctt attgatacat 180

tctgagaggt tcgttgatcat gtggccatat tgacgtcctt ctctatcgta agccatcgtc 240  
catttttccct ttgagatgcg atcaatccat gttgctatgg ctggactcag ttcacgaaat 300  
ttttctaaat tttgataaaa aatgtgcttg caaggagtgt aggctgcata aaaatagtta 360  
tgaataacaa ttttaagtat aaatgaaagt aaaataaacg tgaccatcaa atatgaaatc 420  
ttac 424

<210> 27791  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 27791

gagctcagct ccgcgggatg cgatacagtc gagctgcacg cgtgccatct cgtttctatt 60  
ctcgaaatga taaccttcag tcctatatac aggtaactgg cgcattctac acacaagagt 120  
cataatggaa actactccga ttcccgcgga ggaccatact tcgagatacc cactacacac 180  
ttagaccttg gaccgatcaa ttatatcctg tggacatgaa tcatacacat accatcttta 240  
acttatatat tatgagtgat taatatctca catagggat ag 282

<210> 27792  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 27792

aaatgctcga gcttggttaat tatggggcac ttttcacatg tggacattgt ggaggacgaa 60  
cgatggtgca catcaatgat ttccgcattc acaaagcact cagaaaccca ccatccagt 120  
tggccacact acatatgacc tcacgtactt acacatagac gatatcccta attgtctcag 180  
caccggtggc tcatcattac tcaactagcca tcacaacatc ctcgcttaac aacattctaa 240  
cagcacaaac tatcacatgc taacttaaca gagctttggc agaaaacgct gctctacgcg 300  
acaaccatta tcacagctta tatcacttaa cgaccacagt atccttatct tcgacggata 360  
tcacgcaccg ttggaccgac aacacaattt taccggaaga ctgtactgta t 411

<210> 27793  
<211> 396

<212> DNA  
<213> Glycine max

<400> 27793

agcttgatc ctccattgaa gctcatccta gcaaagcagt tcaagttgta ttgaagtcct 60  
ttttggctaa aatttacatg aggcagaagt agagtcaact tatggcgagg accaaaattg 120  
ttgaccatgc aatagaaact agagttctga tttctatcta gtatctagag cagtatcatg 180  
ttctgtggct tgcaattttt taaaaattga tgttcttatt tgacaatcct ttatttgatg 240  
cagaaaaatcc attatttgat aatgatcttt cctcattttt tttctcattt ctactactat 300  
tctttatatc cataataatc aggtgctttt tcatcaggtt tattaataac ttgaaccctt 360  
tccttctttg ttttcattta taatgcatct aatcta 396

<210> 27794  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 27794

tctaagctac tgagaatgta aaacaaattt tggtattctt aacattgtat ttacaaagat 60  
attcacatac ttctatgatc tagtatctag gagatcaagt tcaaagcaca atctacagaa 120  
actttcttca tgtcatttac atgacaagca ttttttgaca gctaattaca cttgtcctgg 180  
agaagaaatg aaacttttta acttctgtca ttgttctggc cacagaatta taaaagagta 240  
gcttcccaga ctcagcataa tgattaaggc tttgttaggt ttgacgttga atcaaattca 300  
aatcagtcct catagaaatc acgttcaaca tgctttggaa cacgtgattc aggtataaca 360  
aacgcacact aagta 375

<210> 27795  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 27795

agctttttca agtgggtcttc ggcattacat ttaaactcga tccattgtcg ataagtacct 60  
ttgcgacaac gtgggtccata catctcatcg acacatgtag agccttggtg tgcctctccc 120  
cctcaacggg aatctctttt tccgcaaacg cgatgtagtt gttggcggct atatgattaa 180

cgatgccttc gaaaccctcc actgagatat catgtgctac atgggcatcg ttaagaacct 240  
 ttatcaacag cgcacgatga ggctcggagt ttatgagtag ttcaagcaaa cagatccttg 300  
 ctggagtttt attcagttgc tcgaccacct taaactcgct ttgttgatg aggcggagga 360  
 actcatgggc ctcttcaaag tcacggtggt tcttga 396

<210> 27796  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27796

tctttgagaa aacttccttg agaagctaga gcttatctac acacttcccc tctcataact 60  
 aagctcacct ccttgaaaag cttccttaag aagattccta aagaagctag aacttagcta 120  
 cacatacctc tctaattggct aagctcacct ccttgagatg agaagctaga gcttagctac 180  
 acaccccta taatagctaa gctcaccccc atgacaaaat acatgaaaat acaaaacaaa 240  
 atccctactg cacagactac tcaaaatgcc tcaaaatata aggctaaaac cctatactac 300  
 tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata ttacaaaga 360  
 taagcggctt catacttagc ccatgggctc anaatctacc ctaaggctca tg 412

<210> 27797  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 27797

tttgtcttgt tcaatcctga cccaacccgg gcatagtcag ttaatgagaa cctgtgacgt 60  
 acctatacag gcgagctcct ggcagtcaac cgataaaaga acaaagacca caccgcaagt 120  
 aggcttgtgt ggaggctggc cagctatgga tcttgagcga ttatggactc tggctatcga 180  
 ttaccaaggg agtgtaatcg attacaaggc ttaaaaatga agacgagaag tcaatatgga 240  
 ctctggtaat cgattaccac aggtgtgtaa tcgattacca cgcctaaaaa tgaggtcagg 300  
 aagttgagat ggcctctggt aatcgatgac caaaggaggg agtcgatccc atgcttagaa 360  
 atggatatgg gatattg 377

<210> 27798  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27798

tgtgcgaatc atatcactac tgcattttat caatattatc gtccttnctt tctctaccca 60  
 ctcgtcacgt ttggacttct tacggaaaaa caccataact atactcgcca cagggcatac 120  
 ctatggcacc atatccaagt ctagaacgat gggatgacac taagagacac atgatcagat 180  
 gaaagctgac atgtgagctc tgagagaaca tatgtcttcc atgatggacg ccatgttttg 240  
 aatgagagca gctaattggag aatagacggg tcaccactac 280

<210> 27799  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 27799

attctagttc ttggcacaac atttatgatt cacgtgcgga gagttattgt gcatacctgg 60  
 aagcttcatt agacgctgtt gaattgtcta tgagtaaagg tttgaacgct taaatagctg 120  
 gcactcgcga gacatacaca cgcgtgagta ctatagacgc aagagctcgc gtgatatgga 180  
 agcacatact atgcatactt cctatatcat gaagtatgct tattaggtct cttacatgat 240  
 acgacgcatg ataccc 256

<210> 27800  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27800

tcatgacgat gaatcaagtc gagecgtgtg gctttgtcta tgaccttaga tgangacgaa 60  
 acgccgaacg aatgacttcc atatcgagtc gacttgatta acctacggcg attcgagatt 120  
 cccgtggcgg ttgttgcac gatgcgagac atgatgattt accgagtcga gacatgcagt 180  
 caggaacact cctctgggga cgtattgaca ttttcttta tcgacaacat agcacatttt 240

tgtttcgtca cacgagccat ctcaggattt tctaagttac cagagtcttt actctttggt 300  
gatcgattac cagtatcgtg cagtcgat 328

<210> 27801  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27801

ttcattttat gtttctacta naagaacaac agcgttacat attccaaact accccaatct 60  
tccatatcag ttgatgtgtc aagttcaaga tgccatactt catgtcagtg tgccaagtgg 120  
aatcatcact cttcccttac tatataatca caaattgtat atactatata gttattgtaa 180  
tgccaatatt agtatgacca atgcattata ttcattccttt ttaataattc taagaacatg 240  
gttccatggg aaatactatt caatcttgta ctatctttag cttcctttcc aatacttgga 300  
caaggaggat aaacttttag agcatgccaa agctcttaaa gtacatacca gaattgaccc 360  
tgatatagaa cttggtccat tgatc 385

<210> 27802  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<400> 27802

ggttcgtgaa tcatcttctt cttgaagttg catcttctat catcttgctg tcttctgcat 60  
tccgctgcca ttgaaattca agatgcaaag gacttcattg atgaagaaga tccaaggcct 120  
acaatctcca catggagata catcaacttt ttcattgaaac tttaagagat ttagttcagc 180  
tttccatagc caccaagaat agatcaattg catttctgta actctagata cattttccaa 240  
aatgaactca tcctgttgat gaaattccat tttgagtgtg tagtaacaat gatgttcttc 300  
atgtcatgtt cattgttttag atcttcatgt ctgcaacatt catcttttcc tttagttggt 360  
gaatatttct tatggcttga attttttattc ttcattctagt gagcatgtcg ac 412

<210> 27803  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 27803

tgtttcaacc tagaggagac ggaccattcc aagtgttga gaagatcaac gacaatgcct 60  
acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120  
ctcttttttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caagaaggag 180  
ggagtgatga ggacataacc aagggaagg accatgaagc acttgaaggc cccatgacca 240  
gaggcagact taaacaagcc caacacgtca tagagacaag gctggtcatt tgtatagctg 300  
ccattgatga tgattgaagg cccaagtga gaaagatg 338

<210> 27804

<211> 256

<212> DNA

<213> Glycine max

<400> 27804

tcaccggatg acgccgatct aacattttct aaccgttgtc atgcacaatt cggacacgga 60  
tcgaatcgaa aacctcctat gcgacgtctg acgtgaacta cggaccgatg ttcctcacct 120  
cgacatcgaa caattctctg cacattacct cgatagtga gtagggcctt tctaacgcta 180  
cattacttct cctgtccagc agctgcatca acccctgaca ctgccctcag gtgaggcccc 240  
tccacggact tccctc 256

<210> 27805

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27805

agttttcaga catcattctt ttgaaactgg tccaactctt cttgcattgc ctttaaccocat 60  
cattcatcag aataacatca tctatgtgtt ttggcttgat ctctaaaagt agagctatat 120  
gcttgacaga gttccttgtc tggactttgt ccttaggatc accaatgata tgggactcta 180  
tatgatgttt cctcagcaaa cgtccagtta gttctcttac tttttcaagt tgatcatcca 240  
ctggtgagtt ggatgcaatc ttttcttaat tggatgcaac agcaaaactta acaatatattt 300  
ctattttcat ctctacaana ggacgtgtac aactctaaca ttgtggtgtc aagcttattc 360



tcattacatc ttacacgaat ggctctgtac acagtcaag

399

<210> 27806  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 27806

tctacttatg tggcaggggt ggcttccttc acttttttgg ctgcaaagcg agctttgacc 60  
actgttggtc cttgccgcga tgcttctttt catgtcacgc tgagtgggct tatagcctaa 120  
accgtactta ccacgaattc cttgggtatt taataagcta attatgccga cgatgacttt 180  
gcctaaaccc atcccgggggt cataaccgga tcccaacata actcggggcca tcattaccgc 240  
tgcgtcggac agacaatgat gacaaaaatg gagtgcacgg aagaaatgct gaccacctca 300  
aaagactgga aagcgattct aacgattc 328

<210> 27807  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27807

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cttttttagta gtttgacaca cctccacacg tgtttggcta gccctagtgg caactcttga 120  
catggagtta aagcaattca gtgccaaaac tgtctttctc catggaagac aagaggaata 180  
cattatgatg ttatgatttg aagggttttga ggtggaagca aaggaaaatt ttgtctttag 240  
attgaagagg tctctntatg ggatgaagca atcaccaaag caatggtgca agagatttga 300  
tgagttcatt atctcgcatg ggtacattag aagtctttat gactcatgtg tttatcatag 360  
caagggtggag gatgggtccc acatatatct attactctct atggat 406

<210> 27808  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 27808

tatgctgcaa atatttacia tagacctcct caaccttatc agcataatca accacagtag 60

aacaattatg acctttccag caacagatac aaccctggat ggaggaatca ccctaacctc 120  
 agatgggtcca gccctcagca acaacagcag cctgtctcctt ccttccaaaa tgctgctggc 180  
 ccaagcagac catacattcc tccaccaatc caacaacagc aacaacccca gaaacagcca 240  
 acagttgagg cccttcaca accttccttc gaagaacttg tgaggcaaata gactatgcag 300  
 aacatgcagt ttcagcaaga gaccagagcc tccattcaga gcttaaccaa tcagatggga 360  
 caattagcta ctcaattgaa tcaacaacag tcccagaatt ctgacaagct gcctttctcaa 420  
 gct 423

<210> 27809  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27809

cagcttgtgt tgcaataagt ggtggtattc atacaaagat gggtttgagc ttaaatgtca 60  
 ttactagggg gaattctact tttatgatgc ttgagaagtg cccttgata tcgatgtgct 120  
 tttttagtgc tggaatttga tgataggagc tattcaagtt gtcttattaa tgaagaatgg 180  
 gagagaggac aaaatatgtg tgattttttg cgtccttttt tttaaatcac agagttgata 240  
 tctgggtcct cttatccaac gtctaatttg taattcatgc aagtgtggaa aattgaatgt 300  
 ntattgcttc aaaatttgag taataaggat gagttgatta gaacaatgga aattgatatg 360  
 aaaacaaagt ttgataaata ttggagtgat tatagcaat 399

<210> 27810  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 27810

tctgcaacaa tcttcatcat cacctgcaca tgatatctga atcttttctc ctcttcaaag 60  
 ggaagacacg tagccaagac aacgaggagg tagaattgaa gagaaagagt gtcaaataatt 120  
 tcaaattgtg cagattgggt catatcaaaa gaaattgcag aactagactc tttaaagtga 180  
 atgcaacata cgaagaaaat gaaggtgact catttgagta atttagatgg gatcaatgct 240

tcaccatcga ggatatgagg gttggacaga aggagatacc agtaaattac ctagattacc 300  
 aaaaagaatg gatctttgac tctggttgct cacatcatgt aacaggtagg ggtgggtaag 360  
 cgggctagcc tgcctgtata agcccgcatc ggcagcgaac cgggccagtc caccctgtat 420  
 tcttacac 428

<210> 27811  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 27811

agctttgtta gtcttcacca aagaactaag ctagccaagt tcaacgcac ctcctctttc 60  
 aatcatgttc ttgcatatgc aaaactcgaa tctgagatgc tgggtaatgg atctaaactc 120  
 ccgttcactc gagccaacat aacgctgggtt gacattcacg gttcatatctt atacctagaa 180  
 tgacccaatt agaaagaatc ataaatataa tactaaaaca tctattaatt aagatattaa 240  
 attatacaga aaaaattaaa caagcttagg tatacatgag taatatctag aatattaata 300  
 attgtttcta ttattgcacc tttataataa acagtcagag acatgtacaa aacatgctct 360  
 tgatgattaa aaatactact cattagaatc gataataaaa catt 404

<210> 27812  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27812

taacaaactt agaaatcaag tgatcatgta ttccgtatat aggtggagaa ttacggatgc 60  
 acattttatc tatatacaat tggttggtgc ttgcttgaaa tcttgatttc aggtattgta 120  
 ttgtcatcat caaaaagggg gagattgtag atgcaattgg ctttgatggt ttgatgatga 180  
 tcatgatgat gtgttgcaat tgatgcaaag gggcttttca agattaaaat tcaagacaat 240  
 acttcaagat tacaaggcac aacatcaaga tgatcactag aatattagga aggggaattcc 300  
 taattgaatt agcaaagggtt tggccaagtg atttaaaata aaaagtgttt ttcaaagggtt 360  
 ttactctctg gtaatcgatt accagaggat gtaatcgatt accagtggcc aaatacattn 420  
 tataacagct ataaa 435

<210> 27813  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27813

agcttttcacc ccacccacca ttaactcacc acatggcaca cctcaacatc ctgccttacc 60  
 ttctcccgaa cctgtccatg tttcatcttc ttctcaatca cttgcaatgg aatcactctc 120  
 tcggtctttct acgccaacta tatctcaaca ttccatgggc actcgtggaa aagctggaat 180  
 attcaaacca tagaaattat tctctgtgag caagcatcca atttttccag ttgaagaacc 240  
 aactagtgtg tccaaagcac tacaatgtca tcaatggaag caagccatgt cagaagaatt 300  
 taccgatctc atgaataatg gtacatgggc tctagtcnc agtcaaccac attntaatgt 360  
 cattggaaac aaatgggtgt ttcgttttta aagaaatcca aatggatc 408

<210> 27814  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27814

tcttgcgtag ccgctcttgg tgctcagaaa atcccttaaa caaattcctc ttattactag 60  
 ctatttttaa ttcttttagt cctgaatgta caaccttcaa attgtttctc gttcccctct 120  
 ttgagaatgt ggaggatctt cataggactt catccagctg atgtttgnca ccaganncat 180  
 catccaccac ctttttcttc tatecttctc acgtttgaag tcgttaaacc catattgatg 240  
 ccttcttccc ttcatgtctg gctttatgac aactttatcc gaattgacta t 291

<210> 27815  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27815

ttagcttctg catgtctagg gctttctaga gagagaatgg tccaagttcc agagagtttt 60

gagatTTTTgt tGTGTgaaga ctagcggaga atcgagcttg aagaggaagt cgtcctgaga 120  
gcataatatg agtctgtgag tgattgCGag gttctatagg tggaggagac atccccacca 180  
cttgTatatc ttcaatcctt catctttctc ttctcttga tgtaaaggaa gctctctagt 240  
tatggagagc taatcctctg ttggttcttc cttgtaggta cttgatgtan atacctgtat 300  
atctatttaa tgatgctttg tGTgttCact gtgctatcaa aacttcattc taccatgctt 360  
ntgccttgat cacgt 375

<210> 27816  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 27816

tgcctaatta acctgaaatt tataggaaat gattattaaa cacacaaaat agaattacta 60  
agtatttggtt acctatcttt aactaaaaga acttatagca ctacaaaata accattaaat 120  
gaaggagttt aatacaattt acataagttt tatacacaaa agttagtTgt attcatcgac 180  
taacacacac acacacaatg taagtGaaaa tcactattac accattaagt agcttcttac 240  
tggatcattt tatcccaaaa tccaccattg gatagaaatg tcttgtcata gacatcatgt 300  
gtataaagtg ttccattaat ccaaactttt gtggTacttt attaataTat aattaaatat 360  
taagattaac atagtatatt agaatcattt tattactttt attgttcaat ttatatgag 419

<210> 27817  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27817

ttagcttgca ttaggagagg tcccatcaac cgccccaaact ccttaaggct ggtgacatct 60  
aggTccttaa tcttgacttg atataatctt tttccagttt gatttgttct catgttttac 120  
taaagtGaaa caaaaccag tgCGaatcaa aactatgaca tctatcatgg gtggaatgga 180  
tgaatgcatg aagaaatgca tatgacacag atgcaatttt atgaatacgg gagcccagga 240  
aattgtcccc ttcttagata caacatttgG gcaggaatgg cgctcgatgt atgtatntaa 300  
gaaggcgaca tggaccctcc gttggtttgc caaagtgagg ggatcaagac ataaccctgT 360

catgataagg cacaacacga gaatgtacat agtacgataa tat 403

<210> 27818  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 27818

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taagttcagt gcgcaatcac aactagaagt gaggaaaagt aatgctgata ccaaaatgaa 120  
ctagaaaaaa caacagcatc aatggcatca aacaaaagca tagtgccaaa ccaaataact 180  
tatagaacat taagaagcat gagtttctag attcatgata ataccgtaac aaaagaagaa 240  
acttccttat ttactaatct ctagaaaagc catgagtttt ctattcagaa tcccacactc 300  
tcacgttctg ttataaatga caatataaat aactaacaat gatat 345

<210> 27819  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 27819

atcttgatg tctttgtaat ttctttcaca agtaattggt gaaagaaaaa agagaaattc 60  
tagtaacaca cgcattgaaa ttggtttaaa tttatagaaa ataagaaaaa ttgtaggact 120  
cgcatcatat ttaattagtc tctcatgatt tgtaattatt ctctcatgat ttgttgaata 180  
gtgtgactct tattgatgat atgaaattgc accaattcat tcattgtacc agaagattca 240  
aagttacttg ttaataatct tatgatatga atcaaaaagg gataaatcaa attatattga 300  
attgtaggat tacttttatag cccaatagta agattccaat atgtcgtaca gtagaactac 360  
tttattgcta aatttccttt atgcccctaa ttaattgaga ag 402

<210> 27820  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 27820

tatccccaaa cctctctttt cccccatggt tagcacttgg tctgtcctca tacgcgaaac 60

ccttttccaa ggctccaatc ctgctccaac aaccatgatg gatattgata ctctccaaca 120  
 actccaaaac cgcattgcag aggtggagcg atgcatgag gaggagctca gaaagctaaa 180  
 ggctgaccat gatcggatgg aggcttgtgt agaatgcctc tagggcgacg agcactcttc 240  
 taacacattg cctaagcgca ctcaaggggg aatcataccc caacacactg tcaacaccca 300  
 agatgatcct agtctctctc acatacacca tcttgaaggg caaactactt gtcgacaccc 360  
 ctttgtcaat cacatcatgg aggctgccat accattaggt tggaaaccac tcag 414

<210> 27821  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 27821

tagcttcatt aagaggcttc ctccagaagc ttctcgtgg cttctcaggg tgttacaagc 60  
 tcagcttgcc catgcgagct aggttgcttc ctccagaagc aaccgccttc tagaggaaca 120  
 tcttggaagg cccaagtggg cctgggtgct atttgacccc cccgttttta ctaagtacac 180  
 ccccttgcc tttttttggt gattctttat tcgtaacgtt acgaaacttt atgaatttcg 240  
 taacgacact tgttttcttt ccgtaaggct acggaactat acgggccatg taattactcc 300  
 ttttttagct ttcggaatgt tacggaaact cacggattgc gtaacaatac ttgcttttga 360  
 tttccgccat gttacggaat ttcacggata gcgtaacaat 400

<210> 27822  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27822

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 atggcgcttc ctctcacctc ttctcctttg tcttcgctg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccagcctc cataaaagcc ccacaagcaa 180  
 gcttccatca catagtctga tatcgcataa gacacaatct ttaacctttg tatttatctg 240  
 catttaatca aaattttaag gctcctgatt catcttaaga cataaatgtc ttttgactta 300

acatgcatgc tagtattttt agctntccaa gccattattc tcatttatga aactctatca 360  
gttaaaacta agtatttctca acttgccagg tgataatact atcttgcac 409

<210> 27823  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 27823

atcttgtctc acaccaaaca tgacaagttt agcatgcttt caacaaattc cttcacaat 60  
aattaccaca aggcataaac ctagtaaaac taccatcat atctcccaa caccacaatc 120  
ccacaaaatt atgtgagaaa gaagtatacc caaacctgaa atttgaagtc ccacaacgta 180  
taggtgcgct tcacgactcc gaaaatggat tcctttcggc atatggagca gatatggtga 240  
gcaaagggtg gagctttgat ggagcttcaa tggtgaggaa gatgaatact ataacaacgt 300  
gagagagaga gggagaaaag cttctgaatt atcgggctga gggaggagag agaacgtggc 360  
t 361

<210> 27824  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27824

tttgaaca aactttgcta ctggtaatcg attacattaa actggtaatc aattaccaga 60  
gagtaaaaac tctttggtaa aagcttttgt gaaaacttca tgtgctactc aatgttttga 120  
aaaacttttt aatacttatt ttgattgagt cttctcttga ttcttgaatc ttgagtcttg 180  
aatcttgatc ttgattattc ttgattcttg attcttgaaa tcaaatttct ctttattctt 240  
gaattgttct tgactcaatc ctaaaatcat tgtcttggga attgttcttg actcaatctt 300  
gaaatcattc tcttgggctt tntgtcatca tctttgttat catcaaaaca ctttgaatca 360  
atcttgattc atcatcatga atcaatcttg attcatgact caatcttgat tcaatcat 418

<210> 27825  
<211> 395  
<212> DNA  
<213> Glycine max



<400> 27825  
 ttcttctaga gaaagctaca tgaagctgcc tcggtaaaaa cgcttcctgg ccttcattaa 60  
 ccgttggatc gtctcgaaat gtggtctgca acttcacaaa acacgcttcc atgatctgac 120  
 cgttgggac tttgagaaga tgtctggagt gtgctagaag cctcttaatg aagcttctgg 180  
 aggaagcctc ttaatgaagc ttctatagaa aactacatga agctgcctcg gtagaaacgc 240  
 tgcccagcct tcgttaagtg ttggatcctc tcgaaatttg gttttcaact tcacaagaca 300  
 ctttaccatg atttaaccgt tgggatcttt gagataatat ctggagtgtg ctagaagctt 360  
 tcgttcccga gagcatctct tattttaagca tttca 395

<210> 27826  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 27826  
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 atacacaatg cgcgcataat ccaccattc cctgttgccc acctccatct gaactcacgt 120  
 actcccacgt agcccatatc ctagtatttc taaacacggg gaccccatca atcctttcaa 180  
 gcttcacaaa catacaagca aaacatcatt caaacagcac aagctatcac aggcaagctt 240  
 aacagagcaa aggcagaaaa ctctgctcaa cacatcaacc actatcacag cttgtgtcac 300  
 ttaaagaccc cagtgacaat tccttcgatc caattcgtaa accgctggat cgactccaaa 360  
 attatactgg aagtctatag tgtataagcc tacattgtg 399

<210> 27827  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27827  
 agcttgtagg tctgatcagt ctgatctcca aatgatttga gtagcaagga atagctctga 60  
 ggcttgcaat caaggcttag ttctgagggg gattccattc tttaaattca cgtgtatagc 120  
 tataaccaac ttattagcaa gttcacacag tgtgagagtg agatatgttc atgocaaagt 180

acgaacaggt tggatatgtg gaacaaacaa gagcaaaaga gggctcttgg cttcttcctt 240  
 tgtgatatga gagagagaga gagagagaaa gggtggtaat gttgtttctg aaacacaagg 300  
 aggatcgagg gaggatcgtc ttctttntag aggtgagttc aatgggaata aagcaccgtt 360  
 aagagagaga tcagacaaag aatgggataa agc 393

<210> 27828  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 27828

tacaatgggt gtatactagc acaaaaatgt gccattttaa tcataatgct cattgatttt 60  
 cattttgatt tctttgtgtg tgtttatatc ctccattaca atgaattgtt ctactaaagt 120  
 tttttttttt ttttttcatt tgcaagcaag aatacatatg cctttttataa tttgctcgat 180  
 tatatttttt gtgacaaaa cataggctac catgcaaggg ttgcaaggtc cccaaccttg 240  
 gagattgcta ctcttattga agggacaatg tatttttatac agaagacatg gagatgtatt 300  
 ggagccattc aaatatgccg gctatcccat gttgctgagt gctgttactg tggacaagga 360  
 tgacaacaat tttctttc 378

<210> 27829  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 27829

tattttcta ttaagattaa cctcatgcct agcaccaccac gttgcctata ataaattaaa 60  
 ttaataatta caaaatattt tttaaatact taaattaaat attttattta ttataagaaa 120  
 taaagatatt taattattac catgcataaa attagaatta actttttcaaa ttatatattc 180  
 agtataagat ccacgtcatt attgcatatt attcaaaaga tttatgaata ttatggaaat 240  
 tggaaagcct cattgttttt atagtaagga gagctocatt cttacttaaa gttaggtaca 300  
 ttggtcattt gatctttatt agcatgatca cttatgtgag tatgcacatt ccttttatta 360  
 ttatattatc gagatgagat attcataata ttttatt 397

<210> 27830

<211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27830

tatctcagag gacactgacc tgaccttttt tagngttcta tnggatattc taattgctct 60  
 tgtaaattga tatcttcata cctgcaaatt aatatccact tataatagag caatgatgga 120  
 tatataatga agtactcata catgtaggta actgtaattt gaaattattt aaacgttctt 180  
 tatcatatat aaagtaattc taatttattt tttgtataaa tatatatttc aattgttatg 240  
 ttatggttta cttcttaaaa aaaaatattt taataaatat ctacgtacat tcgtgaatat 300  
 acatgaatag ntgtactaat actaggggaat gaccaaggat tactatttac taccatttta 360  
 tatacacctg cacatcttag taaaaata 388

<210> 27831  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 27831

agcttgacac ttgttttttag cggaccctaa acagtacaag gggccactat tgtctgctga 60  
 caatgatgca caacaatcac caaatggagc aatacttagg gaagcacact cagacaatca 120  
 caaatgtgtc aagctaactg ctaacacacc actttaaaaa tcatttgaag cctgaacaat 180  
 tatgcatgaa caaaaaccac ccaaagacaa caccttcac ggacattata ttaaacacca 240  
 aaccactgca 250

<210> 27832  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 27832

agcaagggtgg ataattatta atatccatca accagaaagg gaggtcatt ccttacagac 60  
 cagtgccttc tccaactcct aatcatcaag atagagaccg gaagagtagt caaataagta 120  
 aaatcttatt tatttactct ttcaagaagt taaaacgcac cagagaaaag tctcactata 180  
 aaaaaatata catattgttt atctatcatg tctgagaatc acatatgtca agatcttact 240

aatttcttat aattggaat cttcaaaacc cttacaaccc ttcaagacat gtataagagg 300  
 tgagtctctg caccacatga gtcgtgtaaa tctatgccca catcaattta aaactaaata 360  
 tctcaattgc aatgcatgcc gaacagcaat atcacccgtac aaacacgtca gatccacaga 420  
 taaagatact ag 432

<210> 27833  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 27833

cccgggatcc ttacagtcac cagccgcatg caagctcaaa ttgtttttta tgacacgtca 60  
 aagcgaaagc gcccaattact gtgctccagt agctacgatt gatgaaacga tgtattactg 120  
 tttgcagagg gcatgctcgc ttcttaacct gactcttgac ttgatgacaa agcagtgcac 180  
 cctaaagcat aacgacatca ctaacgctga tgaagaaagt tgggtacaaag acgtcggcct 240  
 aatacccatc actgatgcag tctctagaga caactgaca 279

<210> 27834  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27834

gctgggtccta ataaggatgg ttatgatcat agtgatcagc acgctgttct atcagatctg 60  
 atcttattca gatctcattc ggtctagacg ctatctcact cggatgttat tccatctaga 120  
 gtgtatctgc ggcagaggaa actccattca atcttatctg atgggataca gagcttattt 180  
 tatttcgact atgggcttgc actgaacata gacttgcgag ttttggggct gataacctat 240  
 atggcagcac caaagctnta gtctaggaag tcatatgtgg gagagaagaa t 291

<210> 27835  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27835



aggggatggt ggggtttatac gtgatttgcc gatgtggaaa acttgttggtg caccatcgcc 240  
 cgactgccac ctagtaccac atgtgatggg taccatcatat tcttacaagc ttgagatgag 300  
 gaagtgtaga aggggtgaaac ttcttgctat tattcggtga ccacagagtg gtacctggag 360  
 atatgtcgcg gnggtcatga gaccttgngg acgtcaggt 399

<210> 27838  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27838

agcttggttca tcaagtaact aaatncgntn tttgtgcagg atgaagtaac taactaacta 60  
 actaactaac ttccactaat atatacagtt actaccacaga aggaagagat gggccttgat 120  
 taggctcatt taatctaatt aaactaatta taaaaaaca agcccaaatt cacagcccta 180  
 ttatttaagt gcagagggtc tgacttccaa gcccaatttg gccctcaaaa tggcataatt 240  
 ggcccaagct tattgtgaca atattaaaga ttttttctt agctttctac ggattactca 300  
 cacgcacat tnggagttct ttagtgtctt ataggcctta cacaagacaa atatataaag 360  
 caagcacata tatncaataa taagccacaa ttatcaattg agtcaatca ttttcttaag 420  
 accaaca 427

<210> 27839  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 27839

agcttctttt ttttctacac tactctagag ttctccagga tgttctagaa aattctacac 60  
 tcttccagaa agctccaaaa ttttctagaa cctctccaat taaggaggga tccaacaaaa 120  
 tctccccctc ccgacttaat tggggggtag tagcaaaccg gcaccttgga taccttatgt 180  
 caatgtgctt tgggtcatcat gcaaggattg cttctcttct tacatggctc ttctccactc 240  
 caccaattca taggtgttat tctcatgcaa ggatttcac tcttcttgca tggctattct 300  
 ccactcδacc aattcatagg tggtattctc atgcaaggat tgcatactct cttgcatgga 360

tcttctccac caccaattca taagtgttat tctcatgcaa ggatatcatc tcttcttgca 420  
tg 422

<210> 27840  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 27840

agcttcttat tttattaagt tcttctctcaa aactgtccta agcaaagttc ccaaagtcct 60  
attaacaact tccgttttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120  
agtgcccaac ttgtccaca aagtctctca aaaatggctt atgaacttag agtccctatc 180  
actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa acaaatacagc 240  
cacatgggaa gcatcatcaa tttttttaca tggaataaaa tgagccatct tagataacct 300  
atcaacaacc acaaaaatgg aatctctacc attgcttggt gttggcagcc ccaaaacaaa 360  
atccatggat aaatcattcc aaggatactc cggaattgca atggatatac aatcatga 418

<210> 27841  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27841

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acacacacac acacactttt tcctagtcca tcaactcacat aaatttccat tctgcccctt 120  
tgtttttgaa tttatgcttc tcttaaaatt cagttgatta ctcatgtgag ttcttgattt 180  
aatctctatt tctctcccc tttggcatca acaaagagcc aaagtgtgta acaaatttga 240  
agcaagcaaa tacaactaag catccacaca acattcatga naaatataaa ccaaatacatg 300  
aagcacgaac catgaagcaa gaacaatgaa tagatcaaat ataaaatcca catagtcaaa 360  
taacataatt aatatttggt caaacatacc atgcaaataa agagatagta aattgttcan 420  
atatcataat aata 434

<210> 27842  
<211> 431

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27842

agctttagag atgcntcatg aagctgcctc ggtaaaaatg ctgcccagcc tttgttaacc 60  
gttggatctt ctcgaaattt ggtttgcaac tttaaaagac actttccatg atctgaccgt 120  
tgggatcttg gaaaagatgt ctggagtgtg ctagaagcct cttaatgaag cttctggagg 180  
aagcctccta atgaagcttc tagagaaagc tacatgaagc tacctcggta aaaatgctgc 240  
ccatccttcg ttaaccgctg gatcttctcg aaatttgctc tgcaacttca caagacaatt 300  
gtccatgatc tgaccgttgg gatcgttgag aagatctctg gagtgtgcta gaagcttctg 360  
ttcccgagag cantttatctt ttaagcactt cagcctttgc ttttgtgtag cttagganaa 420  
acgtcatttc t 431

<210> 27843  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27843

agcttanaac tccttgttca ttactaaaca agctaaaatt aatcacaatc acaagcaagg 60  
tattcctaatt acatgcaaga gataagaatg anaaatagaa aagggaaga atagctgggt 120  
tgccctccag taagcgtctt tttaacgtca ctagctngat gcgtcatctt gttatctaag 180  
atccaacaaa gttcctactt caaggactnt cttctgaggt ctcttttcct ccatcacatg 240  
cactntaaga cagacanttt ggctangtgg atctttgtcc tcttggaaaca natcanagct 300  
gattntntaa tcttctatgc ccatctgcag tnatttcttt cccatgtcca ccacgt 356

<210> 27844  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27844

agcttcaaag tctttatcta tataaccata aaccaaatac taccataaca tgtttttaac 60



atatcaatgt aaccactcat catataatcc actctagttt tattttaaact ggaattcaac 120  
 taaaaatata tatttctaga aaggaataaa aagttatagc aaaaatccac cataccaaaa 180  
 ggagactagg gtagcagtaa ttctactact acatcataag ttcatagcaa atagcaatat 240  
 tttaatgaag gggaatggta ttccacacca acatagggtc atcctaata gaaggcgaaa 300  
 caatgcatta nggaagactc anaagtatct cagattccat gaaatctggc atttaacatt 360  
 ntgccattaa atataagaac aaatgtcaca atgcatttga aattaaaact ganaggaaaa 420  
 taaaataaac taaag 435

<210> 27845  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27845

agcttatgtt ttccatcnc tgaactccc tcanataaat ctcatctgat gaccctccaa 60  
 tctgctccag tcgcctctgt agaacagaaa cctgcttgct aaaatttctg ttcttctctg 120  
 cccctacatc cttgactttc gacctcctgt gcaatctctg aagtatcagt gtcaactcat 180  
 gaatctcctc atccataacc atatcaacat tctttccttc acaaactctg attcttccct 240  
 gcattccgca tcgcaagcta aagatcagaa cgtccaaatc ataagataag acaactaaaa 300  
 gccaaaccac tgataactat agttatgatg cacaaaactc acanttcatt caacagaaag 360  
 cttcagcttc aacacatgtt gctatcacag tgtgttagta tgtttgacaa ctaa 414

<210> 27846  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 27846

ctctccagat ggactcacca cgaaggccct cctgttcgct gcctatgagc ctattgaacc 60  
 acgtgccttg tatgtgagaa caattacagg ccttacggga aggaccatga accacgctaa 120  
 cactcatgga aatgagaacc tgcggaattg tctcctgagt gaccggggca tagatggcgg 180  
 gcttagcttc ttggctaaac atacgaacat tacgaatatg aatgacaacc tcaaaggagt 240  
 tgtggggaag gcaaaagaga ttctacaagc aagattaagc ctctgccttc aagatgtttg 300

catccgagca ccatgtgcca tcatcgagct ttagattgtg aataatgtta cgatgcctac 360  
acacaatagt ctgagtgtga aaatactagt gttgcggtag cccgatctga tccagttctt 420  
acacgatttc tcg 433

<210> 27847  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27847

agcttcttgn cttantaaat gaatngaata cacatcggca tgagagatgt agaaattgtg 60  
aaagtgtgac attgtatcgt taaaggtggc ttaaataaat taattagtat cgcctaaatc 120  
agaagatgca tctatTTTTT aatatgatta ttaaataaat tgatgattgt tatgagatac 180  
tctattacgt gaatcctaaa atttatgcaa tatgcatgat acttgaatat tacattctat 240  
atatatatga tggccaatga ttatgctttg attgctgagt tggatactat tttggatgac 300  
ttattgtttg taagttgtgt gttgcaggtg caatttgtgt ctatgatgat ctcatgccta 360  
atgtatgtgc ggaacacgtg gtcacatgtc tttcatagac tccatggata tatgaatctg 420  
gatgtg 426

<210> 27848  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27848

taaaataact taatgccatt tacctacgga attaagaaaa acttaatggc tgagtgtaac 60  
tgaaatagtg gcatccanaa gtcaccacaca acagtcaaca agtcaatcac catttggctt 120  
tccataatgc tgatgcctan gttgccaatt gggcccttat tacaacttga actaaacctg 180  
actaaagccc ttttaattga ttaacccaaa acatatgttt ggtcaaccaa ctttacactg 240  
attgggcat tatctagaca aactaaacac tctaaaaatt gagacaaagt ggtgtcatat 300  
agtcctcctc catttgggcc atgatacaac tcacaa 336

<210> 27849  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27849

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 accaagtaaa tggagcatta ttaaggtcca acgcctttaa attatcacct ttcaagtaaa 120  
 aagaatcgct tggttcactc ttaaaaaaga actacgtaag tctaatttcc tcttcgatgg 180  
 agggtagcgt ggagcaaaag cccagctttt atcgacctca aaatataaaa agatataaaa 240  
 ggtaagataa cacaatttca caattctaaa anataggctg ttgtcctttg agacaaacgc 300  
 aagagggtgct aataccttcc tcatacataa atacaactcc tgaactttga attttcattn 360  
 tgaccggttt ccttcgattt ttctgacgtt ntccacacat aaacgttggt gacgactccg 420  
 cgcatctt 428

<210> 27850  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27850

agcttattaa tgctaagcac taacagtagt tntgtcatag aagtcatgtc tagtcataaa 60  
 acttgtcaca taagatttct tatcttgtgc tgaattttat ttttttgttt ctttgtctaa 120  
 ctcatttggt catgagtgtg tgaaattctt ttagcctatt atttgatttg agtcaaactc 180  
 ttcatgttaa ttagtcctta acatgttcat gcaaaattct tagagagtct ttgattgtga 240  
 accttttctt gaacttttag gtttccttat gattgtgtct attggtgaat ttgagtttgg 300  
 tgattgaatt gctggctgaa atgttgatcc taagtgaata ttgaacttct aaaactgtgg 360  
 taaacaatcc tagtgagttc aacatacata ggaaggttca nagtaagccc aatgcaatca 420  
 atataccat 429

<210> 27851  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 27851

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agtgcaacca agtttgcccg gaagttgcgg tacacattca ggcacacacc ttcttggttg 120  
atttccatat tcttccaatt tgcggagctg acgtagtgtt agaagtacag tggctaaagt 180  
cactgggacc tgttctaaca gactacgcaa ctctcaccat gaaattcatt tataacgata 240  
aattgattaa gctcaagggt gatcgtgatg canatattga tcagatatca ccatcacagc 300  
tgcgacgctt tatgaacaca ggtaacacta gtacctatct tcacattcag cttgactctc 360  
atcatcccaa acccttacca ttgactcact cgataccggc aattcaaacc ttactcacc 419

<210> 27852  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27852

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atagcgggtcc ttgtctttct tggaaggtag catgggatat ggtacttccg tatcctcatt 120  
cgaagctttt tctttcttct tctctcttgc tttctcactt ctactctttt ctttcccttc 180  
tttatttttt tcaacttttt atttttcttc atttttcttt tctacctcta tttctttttg 240  
ttggtcattt atttctttct cctcgacaat tattgggttt tcactctcct gacttgtcac 300  
atctattacc tctctntct tntctcaat gccatccttt acaacaattt gtttctccaa 360  
agccacotta tctcatcct caactaccaa acacttcttg tttcttgtca tcacaacatt 420  
aca 423

<210> 27853  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27853

agcttggtatg ttttgtttta ttttgggaaca atgggttaaag aaaaagaatg gaaagttctt 60

attacaaaat gtatcatttg aagtttcaaa tgcatttcta ttgtgatatt ggataaaaaa 120  
acaactaggt gttttatcca atgcaataca taggataaat ttttacttta taaaaataaa 180  
tttataataa ataaataactt tttaatatat aaagtatat ataatataaa tttataataa 240  
ataaatcttt ttttgaactc aatagataag tatactttaa aatataaatc atattntaat 300  
atcaagttag tcatcttgat gataaatcac cttagtatat atcttatatc tggaagaatg 360  
gacnataatg ttagacagat ctataataat gtactcatca tgttcaataa actaaactag 420  
atctcttgat aatat 435

<210> 27854  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27854

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gatagggtta aaagagctat ggaatctgtg attagaatcc caacagctta ttcgattccc 120  
actagggtcc cccaaaaaat agaaatttgg aattttatgt gtaaggatga ttaattgggg 180  
gattggttta tttcatctga aattctgata agattattta gttaaactta aatctaactc 240  
gattattgtt aattctatgg ttaaaaattt aaacctatac tgcaacttat tatgtttgca 300  
tgactgtatg atgatattgt ttatctatct cacattctca atatgatatg attaacagat 360  
gattttgtgt tttcttaatt tctaattata agatatctt aattaattta ccttcctaac 420  
aaaatataac ta 432

<210> 27855  
<211> 280  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27855

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agccagcggt gtgtcgcta gatagagtaa gtgtagcata tcagacatac cttccagcta 120  
cacgactaaa tgagatacta ataacatatc tttcaagacc ctgagagaaa aaaagcacc 180

actgtcagag agcttgatag tattaactga gatgaattag aaaagcacia gctcatacag 240  
atatagataa agaaagagtg ctctgtgccataagcatgg 280

<210> 27856  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 27856

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tggtacctgg agatatgttg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120  
ttgccaaaaa ccaagcttga tcaatcccgga cccaaccggg gcatagtccg tcagtgagaa 180  
cctgtgacgt acctaaagag gcgagctctt ggagtcacac cgataaaaaa acaaagaccc 240  
caaagcaagg aggcttgtgt ggtgggtggc cagctatgga tcttgagtaa tatttggagt 300  
atgacctctg gcaatcgatt accaaggggt tgtaatcgat tacaaggctt ataaagtctc 360  
gaatcgatca aacagttaat gaaccgaaac gaacaggatg ttactgggta tttgagtaag 420  
gaaagttgt 429

<210> 27857  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27857

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gaaggaataa aagagggaga gaagttgaac tttgaagtgt gtctcataag actttcattc 120  
atcaaagtta caacaagtgt tactcatgct tctatttatt gattaggtag cttccttgag 180  
aagctttctt gagaaaacat ccttgagaag cttctttgag aagacttcct tgagaagcta 240  
gagcttagct acacacaccc ctctaataac taagcacacc tccttgagaa gattcctaaa 300  
gaagctagag cttagctaca cacacctctc taatagctaa gctcacctcc ttgagatgag 360  
aatctagagc ttagctacac cnccttata atagccaagc tcaccncat tccananata 420  
catg 424

<210> 27858  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27858

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 gtgacaggca tacaagagtt gctccatcct attaacgtcg tgaactttgc acagcattgc 120  
 gttctcatca ttggtgctgg gagagagctc ctatcttacc caatgtacat aagaggacag 180  
 aggataatgc ctgaaacgct ttctatctat atgtgactac acatggatat cttcactatg 240  
 gtatgtcggt acgaaccaag tatgatcccg acgaataaca tcagtgttgg atccactgtg 300  
 acacatcaaa agtcgctgct ctcatagagt gctgtcaggc acaacgaaag gctcggcctt 360  
 tcctcaatcc atactggcga ccattaagat taccataatc tgaggactac tcttaacgac 420  
 taacttn 427

<210> 27859  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27859

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 tgcttctatc tggttgtca gacttcattc caaaatctgg acatttcttc catctagatg 120  
 tagcccttgg ctgctcgcg cagtttttcc atgctactga gtggtttctt gcacagattg 180  
 tctgtgaact tgtcaaggca tagtgcgagg agcatggaat gtaatgctac ctcggcgttg 240  
 agattttgga tctggacggg tgtgtgccc aatctgtcca tgaaatttct gctcattgtt 300  
 tacttgtcag agactggcca aggcggctga ggtcatatgg tgagacctac tgggtggtga 360  
 ctacgcacta natcatntga cgagggtgtc acagctatct atggacct 408

<210> 27860  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 27860

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gaactgctca tctgtaataa ggttgtatgc aaatctggta gagaagatcc cattacgttc 120

agctccccac agtcacgtgt gcttcagatt gccacttatt ctgatgactg cgatatgac 180

aataaaaatt aaagctaccc ccatctcact gtcgaacaaa tgtcatctcc aagagaaagt 240

ccattcccac ccattttcag aaaaataacc catgtcttac acaatgtgta atctttggga 300

agagattagg tataattatg gagattgctc tntaagatgt aaccgcgtcg caaccaagg 360

gtcttaccaa agaagaatat ggtctccct acccacc 397

<210> 27861

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27861

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ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120

aaaatttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccaatca aagagtggga 180

gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgaggaga aagcaaaaag 240

aaaagaaagg aaaattccca atcaaagaat gagagaaagt aaaaaaggaa gaagaagaag 300

gaaagaaagc tctgatcag ggatcgaagg anaaacagaa gaaatgtgca gagaggctct 360

tggaccggac aatatatgaa caatacagaa ttgtcaccaa atgaacaaaa aag 413

<210> 27862

<211> 430

<212> DNA

<213> Glycine max

<400> 27862

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tagccgtttg ctcaagggtcc aaaagaaact tgtcacagtg tttatgagag acagagacca 120

acatgttagc tatcatcacc aagtaccaag aagaactaag tctagccaat gccacgagc 180

atagggtggc ggacgagtat gcccaagtgt acgcggaaaa ggaggctaga ggaagggtga 240



tcgactcggtt acaccaagag gcaaccatgt ggatggaccg attttctctt accttgaatg 300  
 ggagtcaaga acttccccga ttgctagcca aggccaaagc aatggcggac acctacttcg 360  
 cccccgagga gatccacgga ctccctcgact attgtcagaa tatgatagat ttaatggccc 420  
 atataattag 430

<210> 27863  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 27863

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 ttatgaccat ttgaatttct cgagagcttt cgatgtttaa ttttgagcgt ctcgatataa 180  
 tataagcctg aatcggacat cagtgtgaaa acttatgacc attttaactt ctggagagct 240  
 tccgttggtc attttttagc gtctctatat gtgatgcgca tgagttggac atccgagtta 300  
 aaagttatga ccatttgaat ttctcaagag ctatgcgtgt tcaatttcga gcgcctcgat 360  
 atattataag cttgaatcgg acctgagtgt gaaaagtatg 400

<210> 27864  
 <211> 180  
 <212> DNA  
 <213> Glycine max  
 <400> 27864

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 atacgacgtt ccggaggcaa accgtcatgt gataacgtac gaccatgtga atgcctacag 120  
 agcacacggt gctcactatc gagcacgaca acagacgagg agccggaagc ggacatccga 180

<210> 27865  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27865

agcttgacat gttctgtttc aagtgttgct actgggtgtag ggacttcaat ttgcttgcca 60  
gacctcaagg tgatggcact cacatthttc agattctgca ccgtttgtga aggcaatttg 120  
tcagaatatt gggactgagc ttggttcaac tgagtagcct tctgccgtat ctgatttgtc 180  
ggactctgaa tggaggctct tgtctcttgc tgaaatttca tattctggat ggtcatttgc 240  
ctcactaact cctctatgga aggttgagaa ggggcctcag atgcttggtg tctttgttgt 300  
tgctactgca ttggaggagg aacatatggc cttcttggac caacaacatt ctggaagggg 360  
gggataggct cgtgntctac tgatgttggt gtggaggatt ttcccatctc acatttggat 420  
ga 422

<210> 27866  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27866

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tctggagggg gcgtttggcg ttgcaacaaa gttgtcaatg cttctgtgat gcgattgaac 120  
ttggacacct ttgccagttg catatgggtgc atcttttctt gtagattgat atattttttt 180  
ctcaataatg tttgcatttt tottgacctc aactttagt tctcttaggc gtgtattctc 240  
tgccatgatg tgacaagagc accaatgtac gatatgtaat acaacagagg aaaaaatgga 300  
aaaatgattg tacgttntta ttgctatggc aacgcaatat caactctcaa ctagtgtagc 360  
tgagaagaat agtacaattc ctatttgaaa act 393

<210> 27867  
<211> 428  
<212> DNA  
<213> Glycine max  
<400> 27867

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tgatgaatga gagtcttgtg agacacaact caaagttcaa cttctctccc ttttcttcc 120  
ttcaatttcg tgctcccgcc ccccgcccta tctctttctc tccctctgtc ttttcttcca 180  
tggaagcatc ctctccaaga ttcttatcca aggcctcatc ttggtggtgaa gctccttctt 240

atcatggctg attccttagt ggatggcgcc tcctctcacc tcttctcctt tgtcttccgc 300  
 tgcattccca tgggtgaaata tcaccattga aggacctcat tgaagctcaa agatccagcc 360  
 tccatagaag ctccacaagc aagcttccat caatttgtga tgaggaaactc agacctgaca 420  
 tagtcttg 428

<210> 27868  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27868

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 gggttcaggtg cagggtgctgc tactgatgga ggcacttcaa attgtttgtc ggacctcaag 120  
 atgatggcac tcacattttt cggattctgc acagtttgtg aaggcaattt gtcagaattt 180  
 tgggactgag cttggttcaa ctgagtatcc atctgcccc a tctgattntt tagactctga 240  
 ataaagactc tgggtctcttg ctgaaattgc atattttgga tggtcatttg cctcactaca 300  
 cttctaagga aagttgagga ggggccttag ttgcttggtg tctttgttgg tgttgctatt 360  
 ggtgctgcat tggaggagga acatatggct tgctntgacc agcaacattc tgganaggag 420  
 ggacatg 427

<210> 27869  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27869

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 aggagcaaca acaaagaaaa tatctatttg catatagttt actccccctt ggtttttaca 180  
 tgattgctta tatgagacaa ttgaagattt catatttttc atatataaaa agttgtctca 240  
 taaaacaata gataattttt cttactattt tatcttttat ctttctctcc ccctttgtca 300  
 acatcaaaaa caaatcatga atagagagga gaataccact tgttggaatg tatgagaata 360

agtgatacca aaaggcatta naacaatcat tcaatattaa tcaagcaaaa acaagtacaa 420  
taacacatc 429

<210> 27870  
<211> 215  
<212> DNA  
<213> Glycine max

<400> 27870

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taactccttg tgctctgatg ccgcccacga taggtattat gaggcactta atgcctatga 120  
tacgtggtat gatgaatgtg tcgagtgggtg caaccactta ttgtcacatc acccatgcat 180  
tctacatcat catgactgac atacgtaggg actga 215

<210> 27871  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27871

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agatttatatt attattatat tttaacttta agccttgat ttggctatgt ttttatgaca 120  
ttattctctg aacatttggg attgttttta gtattttata cttagttaat tacgactgaa 180  
catggngatt atatttatatt tctcttagat gtatatgatt atgtgttagt tattttgatg 240  
atatatgtat agtttcatgt acttacattt ggtattatgc tttgtgtatt ttttaaaact 300  
atztatgtat gattntatatt tacgcacttt ggccttttga tgttgccaaa gggggagaga 360  
naatgggtat tttagaaatc aagatattat atnttcaaag c 401

<210> 27872  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27872

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taatcgatta cacagtgcaa actttgaatt caaatTTTaa tagctgttgt aaatcagttt 120  
 tggccactgg taatcgatta catcctctgg taatcgatta ccaaagagta aatttggtga 180  
 aaaagacttt ntaacttaaa attcttggcc aaaccttttg ctacttcaat tggaattccc 240  
 ttctatttta atataccctt tctaagactc tagagactgt cttgatcatc catcttcaat 300  
 atcttgaatt tctttgtctt gaataaagct ttgagactgt gagacgcatg tgaaactttg 360  
 gcatcatcaa aacattcagc ttgatccttt gtctacaatc tccncttct ttatgatgac 420

<210> 27873  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27873

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 catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120  
 cctgaaatTTT cgaagtccca ctogtagcca cgcacttcac gaccccgaaa atgccctcct 180  
 ttgcgatttt ggggcagaaa tgagcaccaa aggttgagac tttgttgggg tttcaatgga 240  
 gaatgaggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaagt 300  
 gtgggggctg agtgaagaga gagaaaagct ttttggttnt taaataaaag ggttttctct 360  
 ttttctatta ttntatttga gcaatgccac atgtctccat ttgagtggag caag 414

<210> 27874  
 <211> 173  
 <212> DNA  
 <213> Glycine max  
 <400> 27874

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 tggtagccat ctctgtagtt aaacatctgg ggccactggg aatcaagtcc atactgtctc 120  
 caccaatgac cacatatatc atacgtcgat ccatactact gagctcttca taa 173

<210> 27875  
 <211> 559  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27875

ctcacacaca tcacacgcgc accacgacta accagaataa taangaggaa ngaaaggacg 60  
ataaaataaa tnnaaagcgc gcgggggncgtg agacgctgca ttgcacgaca catagaatac 120  
tnaagcttca cagagaagca ctacgtgaaa gcgagacaag gaggctgttt gatgccggcc 180  
ccggaagagc gcgtgcagac aaatgcaaac cggagaacat acatcaaaaag cgggcggaag 240  
gagaacaacg acagatgctg atgacatgac agaaggtaac cgccaaaagt cgaccggagc 300  
gagagagacg ctgcagtacc gacaacagag acaccgaga gtcaacagaa ccaatttgcg 360  
agcaagcaag aacaacaaac gagcgaaaca gaatgatgct gccaaagaacc cgagacccaa 420  
cgggacaagc cctttctgac gaacgcaaac accactaggc aaccaaaacc agcggagaca 480  
cccactgaaa caccggaatg agacgaccct tgaaacggaa cacaaaagat acacaaacga 540  
gcacacaccg gaaaagacg 559

<210> 27876

<211> 368

<212> DNA

<213> Glycine max

<400> 27876

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gttgatcgct tgaaaaaaat tcagaatgtg tgtgatcgaa caattgggca agaccgaaga 120  
aaacatgtgg accatcattg accaatacaa agagaagcta tgtctagcgg catcccatga 180  
acaacggcta aaggatgaat atgcagtggg atcaatcctg cgagcagaaa tggaagcaag 240  
agatagagta attgattcat tacacagaga agcattgatg tagatggata tgttcgcttt 300  
caccttgaat ggtagtcaac atcttctgag attgctagct aaatccaagg caatgatgga 360  
tgtatact 368

<210> 27877

<211> 551

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27877  
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 nnnannnaag gaacagggaa ctgagagccc ngcancnacg nganananan naaacnccag 120  
 ggggggnggc anaaggacaa ccacggggccn acaaaatatt cgtggacccc acacagggac 180  
 cccaggagcg gggcaagccc tcaacgccac ccccggaaaca ggagcacgaa cgcaataact 240  
 gatagacgac agcgaaccga ccaaaaaggg aacacatgcg aaccgcgcca cccaccggca 300  
 ggaagacaag gaacaacaaa gccacacacg aacgacaagg caaaagcaac gactagcact 360  
 aaccgacagc aacaggagaa ccctaacaac aacagcaagc taacagccac aaacaacaag 420  
 ccaagaacga ccgggacagc caaaaacaac ccctacgaac aagacccgca ggcacacgca 480  
 accctgaaaa aaccagagcc agtgaaccgc aacacaacca aacacactgg aaagacgaac 540  
 acacggcggg n 551

<210> 27878  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 27878  
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 cagctcgctt gggcaagcta ttgtgcaacc tccacccttc atttcatata aataagcatg 120  
 agggggctga tgagacaggt ccaatatcat atattacgag gtattcactg aaattaatga 180  
 gaacaaggag acagaagaac acaaatcaag gccgaggcat ttccgtaacg catccttaac 240  
 atttccgaga tcgattctga ggtc 264

<210> 27879  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27879  
 agcttataag tactaaattg cctcaatcat ttccaaatat gcatgtgaat taggaagcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120  
 attatgatga tggatggctc anattctcac aaaggtaaac tcatcacttt caaattgagc 180

tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaaaaa 300  
catgcaaagt cgtacatgca cacaaaattg acccaaaaata ttaaactaat aatccgacga 360  
aactaacaac attaacaaat taacacaact aacaaattaa canaaccaac aaaactagc 419

<210> 27880  
<211> 396  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27880

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tcttataatt gagttgtggt ctcaaatac aacattacct atgatcattt aaactcaaga 120  
cagaacaaga agactacatg catggaagat aactttactc gcttgatgga aaactttacc 180  
tatgatccta tggaaatctc ttgatgtcta cggattgggt gaggcacgca tgagccactg 240  
caattgaacg aaacactgag attattttgtc gatccagcct atacaataat cttatacgtg 300  
aatacttaag cttctatata tcattgacac cttatctgat actggttgat tgtctttcta 360  
ttttaccact cttaatcaag acaagaaaaa taaact 396

<210> 27881  
<211> 306  
<212> DNA  
<213> Glycine max  
<400> 27881

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tgccctgcgta actcccgac ccgcagcac ccagccgcg tcgcgacacc accccttacc 120  
cgcagttcgc acatgctcgc ttcgtagcga gccccggcaa cgcacgaacg gcggagacga 180  
gctccgacaa cgcacgaaca agacgaatat gcgcgaatga agaacacgaa taagacgcgg 240  
gtcagacctg agctttgtat tgtattttgc tctgagtttc ctgctatttg acaccctatt 300  
tctctg 306

<210> 27882



<211> 416  
 <212> DNA  
 <213> Glycine max

<400> 27882

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 ccttatgcac ttctctctct ttcgaatctg cttacgaaaa ttgtttccgt gaagaaaatc 120  
 caagccgagg cgcttccgta acgttttctg aacgtttccg tgagtgattt cacgaagggt 180  
 tttgaccgtt cttcgacgtt cttcattcgt tcttcaccgt tcttcagtct tcaacgggta 240  
 agtacctcaa accaagcttt tcgattcatt ctatgtaccg gtggagggtc acatgagggt 300  
 tcatcgttat ttattctcgt ctcatttact tattataccc ccttttgacg tgcttaagcc 360  
 atcttattta agtcatttct cgcttaacct aacaatacta taaatctcca ccgatac 416

<210> 27883  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27883

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 ttgtcttggt ccttatgcat tactttgaat gagactgatt atagacttgt tataactaaa 120  
 atggtcatta atgaatatga ttccccactt acagaacttc atgaataaat taacatgcac 180  
 tagatatact gaattgtttg agaactactg ttctaaaact ttgcagtgag aagcatcatg 240  
 ttactcccaa agagagctgc ataatggaag atttatctat attcaagtta ttacttttca 300  
 actntccatt acctttatag tgatgatggg atggcaacta cagcctcatg atactgtaga 360  
 tgcaagctca taaagagtca ataatccatt ccattctcat gtttttgt 408

<210> 27884  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27884

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gaccaaataca acctcagatg caagggttgg gcgctaagcg cttgagactc gcaacttagc 120  
gcatgaacag agatacactt agcgcgaggc ttgcgcttag cgaaaggaat attttttata 180  
aaaaaaactt ttctaagtta tttttcagtc ctttttccaa gaaattgaaa cccttatgct 240  
aaacattcaa agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg 300  
atttaaagtc atganaaaaa aaacaaanaa aatagaaatt aaaagctggg ttgcctccca 360  
ggaagcgctt ctttaacgtc attagcttga cgctnttacc tcaactgggtg atcttatgct 420  
ttggttctta ct 432

<210> 27885  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27885

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atTTTTttcg cattcctttc atccattca agtaagtgcc ctctccatct aatTTTTacc 120  
ttcgctgtg atgattgggtg ctttggttga tgctttcttt gcaatgtttg tgagatgagt 180  
tgtgtgcaaa tccatgatca aaatgcttgg attggtggct gtactggatg gctctaggcc 240  
tatgttttgt tcttttacia atttgcatgt catgtcgctc cttatccttc atttatacat 300  
gttttaacat gtgcacacca actatntgat gaaatgtcac aatggctatt ctatgttata 360  
ttttaaaact taagtgggta atgatctcta cacatgttca tggt 404

<210> 27886  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27886

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cttgagttag ccaccgtaga gtgagtcgat ccaagagaca agaatgaatc cacacacaca 120  
cacacacaca cacacacaca cacatatatt taaatttaga caaataatth caatttccat 180  
agagaaatga catatgacaa tcgtttaatg taaacattaa gtacaattta atcatccatt 240

tatctagtta ttcatatttg tttggctaaa ttatctatat atataaagaa aggacaagag 300  
atggagtagt aagatatata aagtgtataa tataaatgtt gctaaggatt gtaaagtgtg 360  
gatatccatt tcttaaccac gataggggtg aatgcaacta gctttgtcca gagagtaact 420  
ntaacaactc tact 434

<210> 27887  
<211> 457  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27887

actcgtccgg gatcttaagt caccgctgct gcagctatcc atgctttttg gccgtcgttg 60  
cattggatat tttctcaaat gtatcttcat ccaccgattg ataaatgaga aagagagctt 120  
tcttgtctct ctttcttgac tccttcaacg tctcatttac accttggtt agcgaggctt 180  
catcttgctc ctogaagcca ttctctacga tatccacac atcttgagct cctagtagcg 240  
ccttcatctt gatactccaa ttatcatagt tgttctttga gagcatcgac atttggaaag 300  
gaaaacctcc attcgccatc ttttgaggat cttgaagctc tgataccact ttgctggata 360  
taaggctctt tatgtttacg acaaatgttt acgaatattg gagactntga atagacattt 420  
gataggaacg agaattcttt atggagaaga gaacttt 457

<210> 27888  
<211> 426  
<212> DNA  
<213> Glycine max  
<400> 27888

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ggctaccag ttgcttttgc ttcattgtaa aatcattttc acattaaatg acaaggcctc 120  
tttcatttag ttttaattctt gatgggagag tttttgataa tgatttgtgt cttttagtgg 180  
tgttctccaa tcagatttaa tgtctcagct tcaaaactta tgctaattatt taatgtaaat 240  
gtttgtttta aggattatta aggtgaaact ccaaaattct atttagagag atagcacgaa 300  
aacacttaag aactgtatg tatacaagtt atgtcctttt ggtaactcaa gataaaatat 360  
ggaatcattc atttcaacat gtctgtact gctaataatc ttatttatat catattaact 420

gcacat

426

<210> 27889  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27889

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tattaaacag tatttaagca agtgacttaa aaaataaaaag tttaaaagtt gtataagatt 120  
tgtttggttac tcggtgaaac agttttcctc attaatatgg caatatcact tcccaaacat 180  
atcatccaca attttaatat tgtgcaactt caacatgatc ttctgctcca cctagatatc 240  
ccaccaactt attgatgcat gtacataatt cccttataac ctactatca aattgcatat 300  
gaggattgtc attgaactct gcattcgaaa agtggacaac cacatgtaat gggatgatgaa 360  
gttgatatt ccatcttcgt tcaatgattt caaacacaca agtgtgtgtg cttattggat 420  
tagtcaacat atan 434

<210> 27890  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 27890

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tgaacctcat gaccgcttgg aactoctaag catcaaact tgcaccaaca aatgttggaa 120  
taccatcaga cctatgcacg attatcatga gaggatagga atcttctcca ccatgtgcta 180  
tgtcatcaac aagtcgatca ccctatttca cccaagaacc atcatgctgt ttgttatatc 240  
caatggatgc catgacaaca gcgcc 265

<210> 27891  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27891

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 gtgatcatga gaggctgaat actttgttgg tcagaaaagaa gttaacatgc ctcacacgag 120  
 atggtttgag tgtactgagg attatgatcg tgaactaagc taccatccct tcaatgccat 180  
 tgtagcggct aacccttaaa gtaagagatc cctacatata tatgccttga tggtttagaga 240  
 attggatctc ctatagcagt ttagagactn tatccatgtg tgtgatgtac ccctaacaat 300  
 gcgagactaa gagctctgaa gattactact gagtagttag gagatatcag atacggccaa 360  
 taagctgatc cttttctgaa gactaaca 388

<210> 27892  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27892

agcttgatnn gtgagtagat tntagcctta gtttcacttg ggatattagt cacttcattc 60  
 atggaaactt acaaagacaa acgcccgatc gaactgtttg atcattttat tcgaagatat 120  
 taggattatt ttattatgat ggctgcccta tttttatata accgtggcta cagcgtgaat 180  
 gatcggctag attttactat aagagtgatt aaacgagatt gctacgcaga tgattggttg 240  
 acattcatgt tatcatttat caggagagat aaccgcttaa acgatcagtt a 291

<210> 27893  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27893

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 atttgcacac ttgattgaat gttgttgtcc cttgtgacga acgtgtgggg tgctaataacc 120  
 ttccccgtgc gtaaaaaaaa ctcccgaacc tttcacactt aaagtctgta gaccacacct 180  
 ttccggattt tccgacgttt tcctcgaata aatgttggtg gcgactccat gcattttcct 240  
 ttcttggaag acgcacccgt gagtctcgcg tcgccctccc gctgaaggct atgttgcgac 300  
 agagaggaag agaagagcac gacattntgt gctctaaaag tgctctgaaa tctgaagggt 360

aattttcaga tgatcaaadc ttcaaaacaa tgcacacaca tgacatcta 409

<210> 27894  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27894

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 gaagagttca aggggtgtgc agaagtgact agaagaatac ttgtatagcc aggagttgca 180  
 ggacataata gttattttgt aataaaagtt ttgatcagta aaatccttta caatttgagt 240  
 aaaggagaac tagacgtatc tctatttgaa tgaaccagta taaatcaaatt attttttaggt 300  
 ctcttttaag tagttctatt aagtattctc ttagcttact ttgtcactat tttctcatca 360  
 agtgtttata taaaaacctt tgtgacaata ttgccttata tttattggaa natccaccta 420  
 ta 422

<210> 27895  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27895

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 tctgtcaagt tggacagaca caactaccta ctggaagccc tattttgttg ctgactagag 120  
 ggagtaaatt tgatgatggc ttcaatctcg ggacaatgaa ttgtcttagg caattatgac 180  
 tgacggttcc aacaagagca atcttgctta tgaagaatga taaaccgatg atcaacaact 240  
 ttggttggtg tttaacacca tgactganac tcanatcaca agtttcacaa cattcacaag 300  
 ggatcattgt agattgagga atatatgata aagatgaana ctttgacaca agcttanatt 360  
 ctcaagatcc caatctcaac ttttgagttg atcatacaaa cttttgcggg aatggatggt 420  
 gac 423

<210> 27896  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27896

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 gttattttct tcttcttcct tgtcttgagt aaataactaa acatgtacta aagacatggt 120  
 gtgtatttgg gggtatatca aaatgctacc cgttccaata tgaagtcaaa ttcttggttc 180  
 caaggccaag agctaatacg gtgttgcata tctgatattg ctttagtggt cgaaagatta 240  
 agacaggaat cttatgtgag ttagatatca tggattactg aaccttgtaa ggtangaaaa 300  
 aaaaatagag aggagacagg cagcaaaaac attcaatagg gtagccctgt tttctttgga 360  
 atttatattc atagctaana ctnttatgta actgttgta attntcattn tcttgatcca 420  
 tgtttcatct 430

<210> 27897  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27897

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 ggagggttagc tattcaaatt gaaattgaat ggtgattata tattttatttt cctttccttc 120  
 tctaattaca atgcttgat gctgctttga gggaagcaca tgaaaaggca gttcgaattt 180  
 caatggcagc ctttactgct agtgctgtag gggttgggtc agtaagaaca aaatatgaag 240  
 gcatgctgca gaaattcctc aaaaaggcat ttgagggtatt gtatattcaa aattatttga 300  
 gtgcaattaa ctgattaaac tntgattggt aaaacttatt tgcatatcag agtagatata 360  
 attgtttntt agtcagggtat cttacaaatc cacaatttag tctgtgattc tggatacgga 420  
 aatga 425

<210> 27898  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27898

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aaatgttctc tctaattctc agtcatcaca aatgtagaga gaccacata atagttaagg 120
gagtgaatc ttattttctc catcttcaa aacattaaag tacatctgag agaagcttca 180
ctatgactca ttatttatat atttattatt tatgacaatc ataggtttca agatccggtt 240
gattttctat cattgatcat ctaagaaact cttanaattt ttacatgtga tatcggaaca 300
tagattatca acattatgat tctctaataa tgattttattc tttctcaatt atgaatgaat 360
cctaattatc aaatgtaaaa atcttatttt cttctgcggc tatgtatgat atgttatta 419
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<210> 27899  
 <211> 428  
 <212> DNA  
 <213> Glycine max

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<400> 27899
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tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agcttttgaa ttgttttggg aataagtgtg gggggggttt 180
gtttcattgg acaacttggt ttgttggtga tgcttcatga tgtatttttg gccatacttg 240
atgtacattg tatattggtt aaatggttga catgctgaat gaaatgttgt ttctcaaagg 300
ctaaagagta aaaaaaaaaa aaaaaaatc taaaaaaaaa agaaaaagaa aagcaataaa 360
gttgagtga taagatctta aatggcacia gaatgatgaa actcttggtt ctactcttca 420
tgtttaat 428
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<210> 27900  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27900

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tcccccttcc cgttctttgt ctcagttttc atagattaac tgtatgactg tgttgtgtca 120
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acattttacct ttatacgccc accttttatg tgatagggtta tatttttacct acctatggca 180  
 ttaaaatttta cagacaattc tatattctac tatgaacatg ttttttttgg tgtgataaat 240  
 tcttcaggta gatatggctt gatcatgaat gtgtgtgcta tactgccacc gtctggtggt 300  
 tccttgaagt cagactactg agctgttatt tctaataatat tgtgttcatt gtggctctgt 360  
 gaggcttgaa tagtaccac gaggtgtttg tactgactat tgagactt 408

<210> 27901  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27901

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 agcatctttc anatgtgaaa atgtattttc tgcctcatcg gaggggaatta atatgcttta 120  
 gttattggag attattactc tacatataca acgactctat ccttatcttc aaaatgtaac 180  
 acttttatag ctattcaaact acttgccaag cttattcaat attgatgcaa gctacattgg 240  
 agcttgtacg cctacgatct tcttcatcaa tggatacctt tgcttcttgg aagataaatg 300  
 gcagcggaat ggac 314

<210> 27902  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27902

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 actaagtatt tattacctat acttaacaga aaatacttat aacactacaa aataaccata 120  
 aattggaaga gtttgataca atttatacaa gttttataca caaaagtttag ttgtattcac 180  
 cgactaacia ctcccccaaa tttacagttt tgcttgcct caagcaaaaa gagaacaact 240  
 cacttgcct caagcgacaa caacatgcag tgactatgta caaagggtgta tgcaactaaa 300  
 gttactgatt gcatgataag agaatagaagt aaaattccct catcacttgt ttttcacaag 360  
 gtatacagtt atccaaagag aanaataaaa tgtaacctga acaatttgat ggagtttaggc 420

ataagacaaa t 431

<210> 27903  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27903

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 tccatcttta gctatcaata agaaataatt tatgcactaa gctatgggcc aattataaga 180  
 ttctttcatg gtatatacaa agtttttattc aactttcttt aaattcttaa ccttctctca 240  
 tatctttagt tcacattaaa taggaatgta agaatgtagg aatggccaaa atctcatttg 300  
 gatccaactt accaggtcaa caactctgac agctgctnta tcatatcttg ccttgatctc 360  
 ctctgccaat gcctgtaatt aaaaatatat taaaaaatca catctaagaa tcacatactt 420  
 ctaacaagcc 430

<210> 27904  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 27904

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 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg tggcataaca caccaaaaga 120  
 ttatgatgat ggatggctca tattctcaca aaggtaatca ctttcaaatt gaggaacaat 180  
 taccattttc ttgaacatat cctataattc aaagaagaat atgcaaagtt gtacatgcaa 240  
 acagaattga cctaaaatat tataactagaa acccaacata actaacataa ttaacaaaac 300  
 taacagaact agcaaaacca aaaccaaaga actcctccc ctcccatact taaacaacac 360  
 attgtcctta atgtagcaca attaacagaa tataagcaat tagaccatca aatagaatcg 420  
 gacaaat 427

<210> 27905

<211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27905

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 acttgtgtgc ttgagagaaa caatatactt gtgagaagtg aagcatgatt gatgattgtc 180  
 atacttgcta acctacttta tctccaagtg agttcttgct tgcttctatc atgaaaacta 240  
 tgaaaaatgt gaacttgaga attggaaatt gaagttgttt gaaaggatg caattgtctc 300  
 agttattgtg gttggttaca ttctgaacat tgtcattgac ttgacttatt gaagtttagc 360  
 ttacttttgc ttgaggacaa gcaaagctct aaatttgggg gacgttgata atctttatgt 420  
 atacataaat can 433

<210> 27906  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27906

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 atatatcgag atgcttgaaa ttgaaaacgg aagctcgtag catatgcaaa acacaataac 120  
 tttttactcg gatgtccgat tgtgtctcgt agtatatcga gacgctcgtt attaaaaaca 180  
 taacctcgta gcagattcaa acgaaaataa ctatttactc gaatgtttga ttgtgtccca 240  
 tagtatatcg agacgctcgt aattgaaaac agaagctctt agaagatttt aacgacaata 300  
 actgtttact cggatgtccg attgtgaccc gtaatatatc gagacgctgg aaattgagga 360  
 cataagctct taagaaattc tatagacaac gactntatac tcggatgtac gatt 414

<210> 27907  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27907

agctttatga tgatactttg tacaacgcgg gagtttctat aaataggaaa aagtaaaatt 60  
gttaaactgg taaaaatgtg tttaaagaga ttaatgtatg aaagtcaact taccaggggt 120  
tcaggagcat ccagcatttc ctgagtaagt cgaagagtcc agatatgctt tctggatgaa 180  
tgtctctgcc tgccacatgt ttgtcgctcc agtggtggtg tgaaatgtat gtcaaatacg 240  
cagtgatggg cacaggcaaa aaagttgatg gtggttgact cgttgatttt caaatctttc 300  
ctgaagttnt cgagtccttc taccaaatac actctttctt tgtgtcggtt gacccgtatt 360  
tcgtagatgg ctccattgta tctcagatga acaaactcgg gatactgtgg tgcccattat 420  
gtatg 425

<210> 27908  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 27908

agcttaccaa tatatattca aatgaagttt atgtttcttt gtgttctata tgtgtgccct 60  
aagcatttaa atttattgac ctggaggata tgatcacttc atcatgtggt gattagcata 120  
tcaatagttt gcatatgggc actgacaatg ctttattcca ataactaaaa tgaagaataa 180  
cttcatatga cttgtcctgc cagtattggt gatgttgaga tcaagcctgt ggaagggtgaa 240  
ctttctaaat cactgttgga aaacaacaaa tgctatttac tggactgtgg tgctgaggtg 300  
tttgtctggg ttggtcgtgt gacacaagtt gaagaacgaa aatcagcctg ccaagccgtt 360  
gaggtaaggc cattgtagaa tctataatct aattcatttc catttgtttg ttaaattgga 420  
ttcattaatt ct 432

<210> 27909  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27909

agctntgacc tcatttctat tatttctctat tcttgggtca ttgtatacaa gttgggcaag 60  
cgtgggtctta cccaaccgt ccatgccac gatagaaagt actgacagct tgttatcagt 120

gtagaagtg agccagttaa tgataatttc tttatcacc cttctgccac aaatatcact 180  
 ttcaaccact gaagatgttg attgtggcac tttaccacca gatcctgatc caactacaag 240  
 atcactaggc tttttcaaac ctagattatc catccggctt gcaagtacag gtttgagatt 300  
 cagattgagg ttgaacttgg agtctggagt gttgtatttc atccaagaca tcttctacgt 360  
 caagcatggc aactntgagc ttaataagcc agtctctcac ttgcatatct ccaaactgtt 420  
 tttgttcagc at 432

<210> 27910  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27910

agcttcaatg tttcttatat catgtggtat caagagcata ttcattctang tgatgttctt 60  
 ttgcttcttc tatctttttg ttgggtgaat tctctttaat tcctttttct tcatcttatt 120  
 cttcatgtat atccccatt gtctagtggg taggcgcttg ttagaataaa atcaaaaaaa 180  
 ataaaccgat taaatcttag aattacactt gttcctgcat ttctatgggt taaattttgt 240  
 agaactactc ttgaatcact gttttgtgtt gattttaagc tctatcactt ttca 294

<210> 27911  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27911

agcttcaaga tttatttctt angttgttca ctatgtttct catgttgctc cccttatctc 60  
 taacacatgg aactaagggc gacctctagc cttagtttca tattcagact gaaactgacg 120  
 agaacctctc catgaatttg tggagtgact catcttcgct ctgctgaatg tttgtgagtg 180  
 caactatagg caagtgggtg gctttactca tcatgtactg ngctccaaaa tgcacaataa 240  
 gtgtcatgaa agaattctatc gagttccttg gcaaacgaat gtaccagtgg agtggtgaac 300  
 cccttaggtt catcangaat acttggcaca ttatgacatc atcattcgtg aatagattca 360  
 tttgtgtaac cgatgcatct atatgtctct ctggatccga gagtccatcg tatcaatcta 420

ttgtcaatgt ctt

433

<210> 27912  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27912

agctttacat tatatatatttc aattgtgtta gcaacagaaa tttagtctca ctcgtttggt 60  
gacattcgaa gtggtactat tgctagggca ttgtattttt ttatatgtgg tattggataa 120  
aatggattct tcccacatgt atgagttaga atgcttgcct tatctttngg acctataatt 180  
tctaaagtag ttcgatatgt ctgaaggggtg agattgaatc tgaatgctaa tctttttgtgt 240  
atgcgtcctt atcagcttgg attaaaaagc tcttgtgtca ttggattggg agcaatctga 300  
cgacagaatg caaataaatt ngacagttct tgtcactcgt aacatgacga agaatgagtc 360  
aaaaccaaat taagcacata tgatacagga tgtagaattc agaagccctt gaccatgcct 420  
atgatat 427

<210> 27913  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27913

agcttggtgt ttatgngta cccatcacat gtggtactag gtggcggtcg ggcgatggtg 60  
cacaacaagt tttccacatc cacaagcat gcataaaccc accatcccct gttgccacc 120  
tccaacagag ctacgtact cccacgtagc ccatactctc gtttctctca acaccgggtc 180  
cccatcaatc ctccaagct tccccaacat caagtaata ccacattcaa acagcacaag 240  
ttatcacagc caagcaaac agggaagg caganaactc tgcccaaac accaaccaaa 300  
atcacagctt ttcacatata aataccccag aacatttcc ttcgttcaa ttcgttaacc 360  
gttggatcga ctccaaaata ttactggaag tctataatac ataagcctac at 412

<210> 27914  
<211> 428  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27914

agcttggttaa ttatctaata tctttgaatg gtaaaaaaga gaaacctttc catgttccag 60  
ggcaccaacc acatgtagta aatatcaatt gaccaagtat acctctagtg tttgaatctc 120  
catcttcaac attagtctaa aaataaacga ataatttatt caaacaatta acatgattat 180  
attctctcta tatttttagt tgaattagat aaagccactg aggattataa atgtaccaat 240  
cacttgcccc tggctaagtc ttccattgtc tcattcaagt cagcttcctc ctaattgaac 300  
aacttcaatt caatgtaacc ctcataagaa taataattaa atagaccaca gaacatgaat 360  
gaattaattt aataatagat tcaacctgta tattgttcag actgataaat ntgtcaattg 420  
tatctcta 428

<210> 27915

<211> 215

<212> DNA

<213> Glycine max

<400> 27915

agccttctttt gttatccgct cttggagctc agaagattcc aaaaacaaat gcctcttatt 60  
actagctatt ttgaattctt tagttcttga atgtacaacc tttaaactgt agctcgttcc 120  
cctctttgag aatgaggagg atcttcatag gacttcatcc agctgatgtc tgaacgccaa 180  
ctatcattca taactctttt catctttgac tgttc 215

<210> 27916

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27916

agcttgatgt gtttctgtct caatttatgc agatatccat gtccaactac aagagcacgg 60  
agtcattccat caagaacctg gagatacaag tgggaaaatt agccaaacaa atggctgaaa 120  
gaccactag cagctntgga gccaacacag agaagaagag cgccattagc aaggcaatgt 180  
tgactagaag ctagaggaga gcacaaggag aagaagagaa agttgaagat aaccagtgtg 240

aggaaggaag ggcagacaaa gaaggacaga tagaggaaga agagaagaag atataagaga 300  
aagaggaaga gaagaaggtc ttgacttcta agaacaaaag tcagctagcc cgagaggcta 360  
ngaaagaaaa gccactaccc cctctaaagg agttcccata tccttttagtg ccatcaaaga 420  
agaata 426

<210> 27917  
<211> 428  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27917

agcttattgt gtaaattggt cttatttctt accacataga tacaaggcat ggggtggagta 60  
tggattanga gtgtcaaact aatgaattgg ataatttttt tgaattgaaa tggatagcca 120  
atccatttat gatccattaa taatgtattg caaaaatcta atttatccat aacttatttc 180  
atagaaaaag gtccatccat tatattttat ttttttcaaa acaatatattt tctaaaacaa 240  
agtgtaatat ttgtacaaat tcttacactg aaataccata gaatccaata tttatctcat 300  
aaagacctat gtccaagtaa tgaacttgga actacttgat tcaactggatt gcaaaatatg 360  
ttggatgggt cattatctat ccaataacaa atggtaatcc aattcaacta atgtanttaa 420  
gtttattt 428

<210> 27918  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27918

agcttgagtc tttcanaaga cttgcttatt catttagtgc taatttctct gccttcatag 60  
tttagtcagt ttaagatctc ttataactgt cagaaggaga aatggctctt taatgagctc 120  
atctcactact gtgtgtaaga agaggaaagt ctgaagcaag aaaggattgg aagtgctcat 180  
gttgtaagta cctctaaaga caagggcaaa agacaaagaa ctgaggagcc caagaatgaa 240  
gttgctaata gttcaacaca taagatacaa aatcaagggtg acaactgttt cttttgcagt 300  
aagcctgaca tgtgaagaag aatgtacca natatcatgc ttggcatgca aagaaaggggt 360



tgcctaagct accagaagcc aattgattct gaaagatgga tatatgttgg agatggtaaa 420  
tcg 423

<210> 27919  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27919

gcttctatga tcagtgcctt tggctgaggt tgctgatgag attgttaacg gttttcattg 60  
cttgtgttct cttcttgatg ctttgtttga gttgtttcgg tgggtgtcatc actgtatccg 120  
agctttgaag ctacaacatt tttggcagtg atggcctttgt cagctattgc tgtggttgct 180  
gaggagattt tatctgtgta actgctctcg tttgatgggt cttagtgtgg ctctcaact 240  
tgngtgggtg tgtangtttg tggngtattg gtttgagttg gatattctgg tagaaattga 300  
tcatgacttc cagctgaagc acanagagta tgtgttgaat tcgttctaaa ttgttgtggc 360  
aagtgttggt cattggattt tgttgaagtg tgctgaatgt tangttcagt agagaaagat 420

<210> 27920  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27920

agcttgcaag tgtattgact gtatattgag gattcctttt ttttagtttt ttatctttct 60  
gtcaggggag tttcactagg tcccatgtca accctctaac atggcaacta aaaaatatga 120  
gttacgtaag gataggatcat tcaagtcttt tttctaattg aatccagcta gtatcacttt 180  
cgtacagtat cttcttatc acggtaatgc gaagtgatga ataaattaag aggtttttgt 240  
tttcttaca ggggtgattaa attgaatgag tttataataa actaaatatt attattttta 300  
ttntgttttg tgagttgtac ttcatatatg caacttaact tttatcataa aaaatagata 360  
aattgtattt attaaataga gtttatgtat tt 392

<210> 27921  
<211> 441  
<212> DNA

<213> Glycine max

<400> 27921

tgaagataga gtcatagatg cctttataaa atctatattt tatattttgt aatcgcagca 60  
agtattattg aactcatcac ctcacgaacg aattctatta attattttta tacgggtaat 120  
tctttggaca taaaacataa taacttgcac ttgaaggatc aaatcagtat aaagtaaaat 180  
aaaggaggta aataaggaga aattgtttat ctttgaagga cataatgaga aattgttaag 240  
aaaataatca aatactactg cccagttaga tactttgact tgggtgcccc cagcaattag 300  
agtgcacga caatctctaa tttgacttag tgtgcattgt gcaacagcaa ttatagctct 360  
caacggtaaa ggatcttact gccacattaa ctattgttgc ccaatggcac ttatatactt 420  
acaatagtat tacacaatat a 441

<210> 27922

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27922

agcttattca cttatgtgtt ttttctgaaa ttcagttagg atgctattac tacaaattcc 60  
cagcttgcta caatgattca agatagattt taaaaggagg ttttccatt tcttactaca 120  
ttttcttttc tatttaccct angatcaagg attgtcttca tattattcaa taaaactctt 180  
catggtagtc aaggatggga gataatataa atttatgggt ggacaaatgt ttatcagatt 240  
tcaatgtgaa tcttcacaat attccatctc atttaccatg cttgttgaaa gctaattgtaa 300  
catatcttat ctcaggtaat tcttctgtct ttctggcctc tatggaagtt tggtttctt 360  
atatggctat ggagattcag aataacaatca 390

<210> 27923

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27923

actctccct taagaaaaag atatctttaga tgactcttga cagnaaaaca ttagcatag 60

aaaagatcct ccattattgc tttcctaaca tggcaaagtt gaaagcaa at aaatatctaa 120  
 aacctaaccc taattttctcc ttcataacac ataacctgtc ccacaccatc caattttaccc 180  
 ccttgctacc tcttttttct aaacccccacc aatatgaatt catcatcttt tgaagcttat 240  
 cccccaacac ttgatgtata cggaaactat tcatgcagca cgtggggata tcttgcacca 300  
 cataacttaat aagaactttg ctttcagcca tatatatcac cataccactc caagaatgaa 360  
 tcttctatcc cat 373

<210> 27924  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 27924  
 agcttttaga ccttttttat cattgatgac gaaagaacac ctcgttcagg gagttctgat 60  
 tctgagggtc caacaataga agtaatcttc ataaaacagc ttctctcttc ttttgaatag 120  
 tgcatacat tccaaagtcc aaatagtttt gctacaacat ccttcatctg cattttttaa 180  
 aataatatac ttttatagga agggaagaaa ttacaacaac cagtottacg aattgcaatt 240  
 aagcatgctg tagaaaaatc accttctgaa attatggttg tcctttctat ttttaactcg 300  
 agaatggact gctctagacc ttcctatgtg ctatcgctaa tattagttga ctgcaccacc 360  
 ttgagcccat gcaaacttcg gtgaacatc 389

<210> 27925  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27925

tattcagcga tattntagat ataattacaa tgaaattgaa gatgttttat ttaaaaaaat 60  
 attttttagtg gtattttaaaa tttattatga aactttatctt ttctaacaat aataatgatg 120  
 caatatttat ataaaattta taaataaaaa tgtaaatata aaaaatatga atatatgcat 180  
 atatatatat atatatatat atatatatat atgtgtgtgt gtgtgtgagt gtgtaaaata 240  
 gagtgttcat ttttctattg cgaatattat attaaatatac tggttttatc tttaaaaaca 300  
 aaagagatct ttatacttat atagttattg agttttaact ctatctattt gagcctc 357

<210> 27926  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27926

ccccacccaa aaaacaaata attaaggaaa gcaaacgccc ggagaacata ncannaaaga 60  
 agagganttg agcctgaagt actggacacc cgacncgnac acgggaaccc cagagacacc 120  
 agcagcacgc agcctgtcaa actttcagaa catgacgccc gcaaggcaca gaataagagg 180  
 cgcggttaagc aaccggagac caaaaagac aactcggta cagagccaac aaaaccgccc 240  
 atagcgcgag ggacgcagac aaaagagaag caggacgcag gcggaaccac atacggcgag 300  
 gctcacgaaa caggccaacg aatacgcagt gaagaacaca cccaacacac gcactatatg 360  
 ggacatccac agagacaagg acatacccaa agaggaaggg caagcggcca gaatgggccc 420  
 tataaccaac aaggacagcg gagatcgac cctaacgagc aacacaccaa agaccaaagc 480  
 ggcacatcta acacgccgag ccaacaagga ccaaatatct tccg 524

<210> 27927  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27927

tgtagggtta aagtctcatg attgtcacgt gtcacgttta caattgttag ccgnggctat 60  
 acgagacatc ttgcaaaca aagtcagggt agcgataact cgctgtgct ttttattcca 120  
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgccagatgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctggtca gagaaatcaa atgttgtggt cctgtttatc tactgtggat 300  
 gtacccggct gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360  
 agaagcatct attgttgaga ggtacattgc agaagaagcc attgcaattt gttcataata 420  
 cttatagaat gctaaacctg tt 442

<210> 27928  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27928

gcttctcttg gtaagaatgt gggctctatt tcgtagtttt gcatggncac tagcagccat 60  
 gttcttttatt aattccatag ctcttcttgg ggtcttcaat ttgatctttc tccctgcaga 120  
 agcatcaaga agctgcttgg actgcggtct caacccatca ataaaaatgt tgagttgtat 180  
 cagatctgaa aatccatgag taggtgtctt tctcaataag cctctaaatc tttccaatgc 240  
 ctcaactaaa gattcatctg gaaattcatg gaaggatgaa atggcagctt tcccttcagc 300  
 tgtcttagac tctgggaagt acttcttcaa gaatttctca actacttcat cccaagtctt 360  
 gaggctatct tctttaaacg aatgaaacca cc 392

<210> 27929  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 27929

tctagcttta aaccacatta tataactttt tacacagggg ctctaaatat aaaatcaata 60  
 aacaagactc tttttaccgt aaaaattcaa ttaagaaat tttgcattcc tcatgcgttc 120  
 gcagcctgtt ctgttccaat caatagctat attttgtttc ataacttttag atatgcaatt 180  
 gaaaattaat agaataaggt ctattgcatt taaatgaaat aaaataagtc tcaattgaaa 240  
 ttttagaatt ttactgggtc tcaagagttt tgcatttgcc tttcgtaaaa attgatcaat 300  
 attgcagaac taaaatgttg acagattttg gtaatatctt tgcaaccttt ttaattcatc 360  
 tactt 365

<210> 27930  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27930

tgaagaaaga gtcatagatg ctnttataaa atctataatt tatattttgt aatngcagna 60

ggtattattg aactcatcac ctacgaacg aattctatta attatttttaa tacggttaat 120  
 tctttggaca taaaacataa taacttgcac ttgaaggatc aaatcagtat aaagtaaaat 180  
 aaaggaggta aataatgaga aatcgtttat ctttgaagga cataatgaga aattgttaag 240  
 aaaataatca aatactactg cccagttaga tactttgact tggtgcccaa cagcaattag 300  
 agtgcacga caatttctat tttgacttag tgtgcatgtg caacagcaat tatagctctc 360  
 aacggtcaag gttctcactg 380

<210> 27931  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27931

tcaagctttt atgattatgg ggtacccatc acatgtggta ctaggtggcg gtcgggcat 60  
 ggtgcacaac aagttttcca cattcacaaa tcacgcataa acccaccatc cctgttgcc 120  
 cacctccaac cgagctcag tactcccacg tagcctatat cctcgtttct ctcaacaccg 180  
 ggtcccatc aatcctccca agcttcccca acatccaagt aattcaacat tcaaacagaa 240  
 caaactatca cagccaagaa aacagggcaa aggtagaaaa ctctgcccaa aacaccaacc 300  
 aaaatcacag cttgtctcac ttaaagactc cagtaacaat tccttcgac cagtctgtta 360  
 accgttggtat cgacgcgaan natttactgg aag 393

<210> 27932  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27932

tgtagggtta aagtctcacg attgtcacgt gtagtatttt ataattgnca gncgaggcta 60  
 tacgagacat cttgccaac aaagtcaggt tagccataac tcgcctgtgc tttttcttcc 120  
 atgccatatg tagcaaagtt gttgatcctg tcaagtttga tgaacttgaa aatgaggccg 180  
 caattatact gagccagttg gagatgtatt ttccccctgc tttctttgac atcatgattc 240  
 acttgattgt gcatctggtc agagaaatca aatgttgccg tcctgtttat ttgcggtgga 300

cgtacctggt tgagcaatac atgaagatct taaaagggtg tacaagaat ctatatcatc 360  
 cagaagcatc tattggtgag aggtacatta cagaagaang ccattgaatt tgtttggaat 420  
 atattg 426

<210> 27933  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 27933  
 atgatctcag catcgttggtc aagagggttca acaaatttct aagaaacata ggatgttaga 60  
 gataagcaaa tttcacatca aagatcagag tagaagattc atcctctctt ccaaagggtt 120  
 atgactgcaa tcaaccagga catctaagag ctgtttgccc aagtttcatg acaataatat 180  
 agagatctga aaagaaaact ttcaatgata agagagcaaa cgaggcctac attacttatg 240  
 aagacaatga tatggactca tctgaagatt caaaaaatga tgctgtagac ctgattctga 300  
 tggccaagaa ttatgaaagc gatg 324

<210> 27934  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27934

tcaagcntta acataattat gccattacc aataaatcta aaataataat agattataaa 60  
 taataataga ttttttatta aaaagtgtag tataaattct tttgggtcta tactatgatt 120  
 taaattgtta tatttagtat gaagtattaa ccgaaaaaag aataaataaa aacttggttg 180  
 aattttcctt tcaaaaccgt tataagagca ttttctagac gggaacatta gcttactgca 240  
 tttctacacg ggaacatatt aacagttagg tagttttata tatttacagc ggtaatttct 300  
 aactactata aactttatgc ttgcaaaac cgcttaagtt caccggttct tttattgttt 360  
 cagcggtttg aggctgcttt tcccggtttg a 391

<210> 27935  
 <211> 415  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27935

cgtgcactta tggagaagaa atttaccttg ntctcaaaga gcacatatat aagagagggc 60  
atttattaag aacttaaaaa aaatcattag aattataaaa ttacattatt cttgacgttt 120  
tatacttttc aatcatttga caataaatat tatgattagc aagaccata atattaatat 180  
atgcatgtgt ttctatttgt ttattttctc ttttcgtttt cttgaatatg cttgtgactt 240  
gcaatgatat atatatatat atatatatat atataataac tatgacatat atcctcataa 300  
ggtgtaataa acaataaaca ttaatatgcg tctggtatac gtataggggt gaacagatgc 360  
cgccagagcc gtagattgag atggctgact atctaaaccc aatattagag gggag 415

<210> 27936

<211> 275

<212> DNA

<213> Glycine max

<400> 27936

catcgtttga gaaaagaatg aagcttgcca aagccttcca gtctgatgag tgaatcaatc 60  
atgtaccttg tggatgaagtc agacatcccc gaaggatgtt caaccttgca tgcattccacg 120  
aaccccaatg gtggttacga acccccatgg ggactatggc tcagatgaga gtaccgtggc 180  
ttgtcatgag ggataaatgc aggccttgcc gccgacggag aagagaaatg ctttgtttgc 240  
gagactgagg gcgagctgca ttatatggat ctggg 275

<210> 27937

<211> 256

<212> DNA

<213> Glycine max

<400> 27937

aataaaccta gacacataag atctacatga acattttcta gaggagatca cacctcaatg 60  
atatctagat aagatatagt ctaaataaga tatgacttga tagaatcaaa tggctctgcc 120  
tctttaagtc cgagcccaat tatggattca agcccaatcc ttcattaatt cctgacaatg 180  
gattaaaaac atcaaatttt ccgattgagc tcacctaata agactgccta gtttaattcga 240  
cacttaagac taatca 256



<210> 27938  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27938

tcgggcatg gtgcaaaaca agttctccac atacacaaat catgtacaac ccaccatccc 60  
 ctgttgccca cctccaactg agctcacgta ctcccacgta gcccttatcc tcgttcctct 120  
 caacgccgag tccccatcaa tcctcccaag cttccacaac atccaagtaa ttccacatcc 180  
 aatcatcatg gactaacaaa atcaagcaca acagggcaaa ggcaaaaaaac tctgccccaa 240  
 atacaactca nattcacagc ttttcacatg caaatacccc agtaacattt ctttcgttcc 300  
 gattcgtaa ccgttggatc gactcgaana ttttaccgga agtctctagt acataagtct 360  
 acaatttgac cgttgg 376

<210> 27939  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27939

agcttgcaaa gtattaatga cataaaaaaca tcttttgaaa aaaaaaagaa gcttgcaaaa 60  
 gctcacaaaa atgaaaaaag aagcaaacat gtaccttgtg ttgatgtcag actccaacga 120  
 aggatgttca accttgcagc atcaacgaac cccaacggtg gttacgaacc ccagcggcga 180  
 cgatgggtgag gaggagacga cggtgacatg tcgtaaatga cgatcacagg tcttgcggtg 240  
 gagggagaag agaaaggctt tgtttgcgag actgagggcg tggggaaaaa aagggttttg 300  
 ggttttaatt catgtacaac acatcaattt ttttaaagaa aatcgatggt atcacctggt 360  
 taacatcagt tntataaata accgatgtta acaat 395

<210> 27940  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 27940

cttctgaaga acctccagat ggacatcata cattctgctt acttcatncn agatatgcag 60  
ctcaaagcca cattaactgc gcaatgtctt ggaactacaa acaccttaag ggcattgcta 120  
aagacaggta agtcgcatta cttgtaccat tgtaagtcca atattcacta cttctctttt 180  
gtctattcca tggttgacca aaaaaatatt gcaaaatttc aggttgatta catattaggt 240  
gcaaaccat taagaatgtc ttacatggta ggctatggtc cttactttcc caagagagtt 300  
caccacagag gatcttccct gccttcaata gaagctcatc cacaaaccat a 351

<210> 27941

<211> 393

<212> DNA

<213> Glycine max

<400> 27941

agcttgtggt tttctcgcgt gtcattagtc aactctgatt tttattgaat aaaacattat 60  
tttgggcatt agatcaaagt atctgtcgtt cttaaattatt tttaaactaa acaaattata 120  
caataagttt tttattttgt acagaacaag aagtggctaa aaatattatt atttttttac 180  
taaaagaagt tgttaaagta atagaaatca agttattatc attcagatgt taaaaaaaaa 240  
tcttcaaatt aaactcttgg gaacatttgg ttgagttgag ctgaattttt ttcttatttg 300  
aaaattatga tttcagaaga atttgattat tgaaaattat gattcatgta taaatatatt 360  
tgattagttc taacataatt attggaaatt aaa 393

<210> 27942

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27942

acactgtgct ccgcccaatt cgncaagcaa ttcattcattg gtctgaatgg ggaagcggtc 60  
cttgatgggt agtgagttca acgcacgata atctacatag aagcgccacg ttccgtcgtg 120  
cttcttgacc aagaggaccg gagaagagaa cgggctgtta ctangttgta tcagcccttt 180  
ctgaagcatg gtctcgactt gctgctcaat ttctgcttt tgaaaatgtg ggtatcgata 240  
cggacggaca ttcaccggag tagcttgagg taaaagggtga atatgatggg ctgttggtgcg 300

ttccggtggt aaggtttgcg gttgtcggat aaggatatta tatctggtga gcaaagcttg 360  
aatggatggg tccacgggtt cagatgaagt cgaatgttct ttcgagagga ctgtgatat 419

<210> 27943  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 27943

agcttattga catatgtgct tgttacgaac ttcagttatg atgctatgac tactcaatcc 60  
cagatcgcta cgacgattca agatagatat cagaaggagg ttataaccatc cttactaca 120  
ttgacttgcc tacataccct aggatcaccg atagtcttca tattagtcca ataaaactgc 180  
tcatcggagc caaggatggg agataatata aatgaatggg tggacaaatg ttcatgagat 240  
atcaatgcga atcttcacaa tattccatat catttacata gattgtagaa cgctaacgaa 300  
cacattttat ctcaggatac tcttccactc ttctgcacta ta 342

<210> 27944  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 27944

tggaacgatg cttgcatgga cgacttgaag agggacttgt cgttatatgt tggagcacga 60  
cactgcagga atcatagagg gagagaagtg gaactttgag gtgtgtctca cactgactctc 120  
attcatcata gatacaccaa gcgttactca cgctgatatc tatagactag gcagcttcct 180  
tgagaagcta tcttgagaat actgacttga gacagctctt ttgagaaaac tctcctgata 240  
agctagagct tagctacaca cacccttttc ataactaagc tcaccttctt gagaagcttt 300  
cgttataaga cccctaataga agctagagct tatctacaca tacctatgta atagctgagc 360  
tcacctactt gagatgagaa gctagaactt agctacacac cccctata 408

<210> 27945  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 27945

agctttaacc tctttgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
 ccggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120  
 tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta accttgcgtt 180  
 gtggacactg aaaccccggt cgatgaaagg cgtgatgctt tcgactgatg gcactcctct 240  
 catgggacat ccttcgcatg aagatagaat cctgattctt ccttccttct agtgagggaa 300  
 ccaattaaca gacgtccctc catgctagcc aagagttggg cccaattcgc cttcccttt 360  
 tcgacgcacg agcgggtgacc ttgtagcgga 390

<210> 27946  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 27946  
 ctttcgtctt acagaatgca aaaagtttat acggataact atctgttgta tttccgcca 60  
 tcagcgggac tcaaaagtca gtatgacaga tcttttgagc acggaagatg acgtaaatca 120  
 ccgcgtgtaa acgggcttgt cggccgcgat tgacgaatgg cgcagaagac gacgttagtc 180  
 tctgcgtgct agcaggcttt tcgacttaca gacagcaaaa agtttatatg aataaccact 240  
 caggtatgtg cgctcgtgag cgtgactcat aagtctgtgt gacagatctt gtgagcgcgg 300  
 aagatgacgt caatctccgc gtgccaacgg gcttgctgat cgcgattgac gagtggcgca 360  
 taagacgacg ttagtctctg cgagctatca agctcttcat cttacagaat gcaaatagtg 420  
 gatacggata accactcg 438

<210> 27947  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27947

agctttctcg cttctaaatt cacttcttgg ttggtgtttt tggtttgtgc taaagggtgt 60  
 gttcgacatt ggaagtgtgg tagacagact ttgtggtaga tttacggatg gccgctgtgg 120  
 ataactgggt ggtgggtaag gagaaagttt gttattggct gagtaaagat attgttgggt 180

tgggtgggaaa tttggccggtt acatgaatgg cagtcacagc atggggtttct cctcatcct 240  
 caccctcttt atttgcccca gctttctcag tcgccctaata acgatgatca aatntgcctc 300  
 tttttggacc cacattgatc ctatcactgg cgaagaccaa atctgcacag ctatgaaggt 360  
 gcgcacccca ccatcttttc atagtagagt accg 394

<210> 27948  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 27948

actcaatctt gccaccagc tcgcccaggc gagctaggtt gcttccttca gaatgctttt 60  
 ctttctgaag gaactgcttg gaaggcccaa gtgggcctgg ttgctatttg caccctctat 120  
 ttactaaata caccctacc tttttttgct gattcttttt ccgtaatggt atggaacttt 180  
 acgaatttcg taacgatact tgttttcctt ccgtaatggt acggaacctt atggattatg 240  
 taatcatcct tttttttggc tttcagaatg ttacagaacc tcacggattg tgtaacaatg 300  
 cttccttttg atttccggca tgttatggaa cttcccggat cgtgcaacaa tgctctcttt 360  
 tgacttctgg cacgctatgg aacttcgcat attgtgcaac aatgggtgcc aagtacctca 420  
 aagaggt 427

<210> 27949  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 27949

agcatttatg atgttgaaaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60  
 gaatgtatgc atacatgatt ttgatgatgc caaagaagaa ccaaacaagg ctgcttcaaa 120  
 tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag ccttgtttca 180  
 agattcacta aagaccaagc cttgccttaa acaaagtgc tttcaagaca tgcaaggctc 240  
 tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga gaaatagctg 300  
 ttgaaaaagg ttttgaattt gaattttcaa catgtaatcg attaccaaca acagaacttt 360  
 gaatattcaa attcaaaagt cataaccc 388

<210> 27950  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27950  
  
 acataaaggc tcgaggagta tttcagggtc tacagaagag acacatcttt gtgaaattcc 60  
 gatcatgccca atgtgaccgg tgttcaacga atgccgcaca aacaacctca aagttataaa 120  
 aagatagcta ttacaatgtc tcattctcta ggatgtttca aaggaagtgt aaaagcacc 180  
 tattacggta cccaccacat aagagacact aagaggaact cgnactacct agcagaatgc 240  
 tgacatgtct aggctacctc agagaaactt tgaaatggat gattgacgga ttttc 295

<210> 27951  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27951  
  
 agcttgtttg cgtggcatct atcggggctg gaagttaatg cttccatggt ttatctctca 60  
 gaggacgtct cccctgtta attcttcgct tagaatggca aagaagatac tgcattgggt 120  
 ctcccttttt gaagacgtca ttgaagagcg accttcccca ccacgttgat cctcggcgaa 180  
 catgctctca taggggtgctt caatgaacgt aaatactcag gttagagata catagcctg 240  
 tgcacatttt gtgggataac atcgggacag atggaaaatct ttgatttggt tctatccata 300  
 ctctca 306

<210> 27952  
 <211> 197  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 27952  
  
 tgacttagat tctttggcat gtggagctga tataaaggag gaggaactaa cagatgcatn 60  
 agtcggatcc tttatcaggg gaacgacatg atgcaaccct ccctacgaag ggaccagtct 120  
 ctatagccat gagcggaagg ctccacgagg attgtgctgg agatgctgaa taaggcccta 180

aggttctcat gaccctc

197

<210> 27953  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 27953

tcaagcttgt, ggttgcgcca caacaaagtt ctgaaactac ctgagggagc gacagaaact 60  
tgagacttac aatccctctg gttatacaga attgtttggg attcatcatc agcatttcta 120  
gtgaatttca gcatgaagaa gtctccattg ttagacatgc acaatggtaa aatcattgat 180  
ttttcttcat aaggacaaat attaagatgt aaataactaa aatttattaa ttgaatccaa 240  
gacttgatcat ctccaaactt cctcatctgc cacaagcaaa gatgagtgtt gctatcttgc 300  
caaacacaca gcgagtctct aaaaactcca atatttgtat caaaatagca aaaatcgtcc 360  
ggaagataca gtgatctgca agtctcct 388

<210> 27954  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27954

cttaacttaa cataattcac atcattntac caatcattgt gtaacatcac ttgtcctaag 60  
gatttaatca caaaatcata ttctatacct tcacattaat cacatgttca taacaaaaca 120  
tctcaagtac aacacaacat ctctcacaca caattcatta cccacaatca cgtagcaagt 180  
cacaatgatc attacacaga cgttatgcaa catatatact aagactcaat cctatattga 240  
atgtgggatc ttgtcagtga aaaataacac tagggcacct aagagtacat aataaaatac 300  
accacacaat gggtaagcag gtcactctta ttaaaagaaa tcataaagtg attaattang 360  
gttatntctg ttagtgtgaa tgctctaacc atatgagatc aacat 405

<210> 27955  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 27955

tcaagctttt cgaaattgcc atgtttgggt gagttagaca taccattct gttttagggt 60  
 ttttgtgatg atgtttgtga tgtttatatg ctgaaattgc tgatggaaat ctgttagaga 120  
 tgaacggtag aactaaccca aggttagata gtgacaatgt gatgttatga gtggaaaaag 180  
 agtgagactt tgagagttgg aaggctatgt ctgaattcta tggtagatgg acgttagagt 240  
 gagttaatac tagcttgaat tgtcatctac aacatgtgag aaatgttagg ctgagctata 300  
 cagataaaca aatgaccaa gtgaacaaat atccattgct atggcaaatt tgtgtgttg 359

<210> 27956  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27956

ctacgctcag ctttaattta agcgncgaa gatttcgggt gnttttctga catccgaata 60  
 aaaatttata gtcgcttgaa tgcgctcaca gcttctgttt tcaattacgt gcgtctcgat 120  
 atattacggg actcaatcag acatctgaat gaaaagttat tgtcacgtga atgcgcttag 180  
 agcttttggg tcccattgag agagtatcga tatagtatgg gtctcactcg gacatcgag 240  
 taggaagcta atatcgatg aatttgcttc gagctttatg tttcaaaatc cagcgtctcg 300  
 aaatactaag ggactcaatc agacatgcga ggcaaaattt attgtcaggt gaatttgctc 360  
 aaagggttctt ctttcaattt ccagcttctc gatataattgc gggtgcaata tgctacaagc 420  
 t 421

<210> 27957  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 27957

agctttcatc agaaagtatt ttgaattttt gaagattaaa gcaagaacta ggcaatatat 60  
 atatatatat atatatatat atatatatgg ccaaaataaa acattaagca tggccaaaaa 120  
 tcatatcttc caatgaaaca tcccccccc cccccctccc cacacttatt cctaaaacaa 180  
 ttctaaagct ccaaaattcc ttaagggtag ggtgatatca tggtttttca cttaaggctt 240



gtagtgagct tcaaaacaag gaaagggaaa cataggctca aaagggctat caaaggaatt 300  
aattcaaggt acgctcattt ggctagaggt tataagaata aaatgcctaa atcatttccc 360  
aacatgcatg tgaaccaaga agtatcaaca 390

<210> 27958  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 27958

tccatcacat tcccttggtg ttggtaccca tttttgttcc aactcaagtg ctcgatgaaa 60  
tgctcaatg gtacttttgc ctaagtttgt gaatatggcc ttttgattgg atttgggtat 120  
gtatgattac cttttttgga tgcggacagc ttgcgaaaat taggataaaa gccaaaacat 180  
gacttatgcc taggggggggt gggggggcaa cctttgtttg ttgaaaatac aaaaagggtat 240  
gatgagtgag agcatgttgg tgaggtttcc cctttaggct agcacttggg ttgggctgca 300  
ccatgttttc cttgtacctg gatcatgtga aaatgttgtt caccatgtac atgtgtatgc 360  
tgaataggta gctaaatgct ttgcataatg tgcatatatg ttgaaaatgg catga 415

<210> 27959  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 27959

tagcttgaga tgaggaagtg ttgaagggtg aaacttcctg cttttattgt tgaccacaga 60  
gtggtacctg gagatatgtc gcgggggtca agagacctg gggacgtcag gtgggggtgct 120  
attgccccaa accaagcttg accaatcccc acccaaccg ggcattatcg gtcagtgaga 180  
acctgtgatg tacctaagca ggcgagctcc tggcagtcta cagataaaaag gaaaacaaga 240  
ccacaaagca aggaggcttg tgggtggctgg ccagctgtga attttgtgta atatgtgaga 300  
tatggcctct ggtacatcga taccaagggt gggtaatcga tcacaacgct tataaatgaa 360  
ga 362

<210> 27960  
<211> 396  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27960

tagccctaga ggggatggac cttntcaggt tttggttatg atcaataaca atgcctatag 60  
gttggacctc ctagaagagt atggagtcag caccactttt aacatttctg atttaattcc 120  
ttttgcaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatccttt 180  
tcaaggggaa gggatatgat caatcctccc taggaaggga ccagtcacta gagccatgag 240  
caagaggctc caagaggatt gggctagagt tgctgaagaa ggcctangg ttctcatgaa 300  
cctcagggta gatttttgag tccatgggcc aagtttgggt ccaattctct ttgtacatat 360  
tagactanga tgtcattata tntgatcctt gtattt 396

<210> 27961

<211> 383

<212> DNA

<213> Glycine max

<400> 27961

tcaagcttga aactctaata attaatgacc attaccataa ttcaatgcaa tatctatgaa 60  
taagtagtgg ttggaagctc actgcactgt ttttcggtta atgggacata tgacatacct 120  
taatgtatca acaaggaaga ggtggaccaa cacgtccac actgtagtca tcccactctg 180  
agaaggcagc cccagcaa at gtttcagtca agccatatcc ttgcccaata ggagccctat 240  
caacaagtaa atatagagaa cttcaacact aaatggataa taaaagggtgt aaatcaaatt 300  
tatcaactcc gggacagtga aactcttctt gtatttctgt gaatcaataa agtccttatc 360  
aaattatcat cagtgttcta tca 383

<210> 27962

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27962

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catatcaata aacttagggt cgataatgga acgagatgag aaaagattgg agtaccgttt 120

ctgctgttcg tcggaagaaa acactagggga agatgacaat gaaggtggaa ttggtgctgt 180  
 ggatgcgcta gtggctccag aacgatgagc tcttgaagcc gaagcggagg cggaagaacc 240  
 ctttcatttc tttgacgatt ctgccattnt agggagtttt tgcagattnt aatcggtgga 300  
 atcaaaagaa aaatgagcaa gaagaagatt tgcatntacg ggagttgatt tgatgaagaa 360  
 atgagtg 367

<210> 27963  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 27963

agcttctgga ggttgccctct taatgaagct tctagagaaa gctacatgca gctgcctcgg 60  
 taaaaacgct gccacgcctt cattaacat tggatcttct cgaaaatttg gccttaaact 120  
 tcacaagaca cttttccatg atctgaccgt tgggatcttt gagaagatgt ctggagtgtg 180  
 ctagaagtct ctttaataaag cttctggagg aagcctctta atgaagcttc tagagaaaac 240  
 tacatgaagc tgcctcggta aaaatgctgc gcagccttcg ttaaccgttg gatcatctcg 300  
 aaattttgtt ttcaacttta caagacaatt gtgcatgac tgaccgttgg gatctttgag 360  
 acgatgtctg gagtgtgcta gaagc 385

<210> 27964  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 27964

tgtgtaccac ctttttcata tagaacacta gtttatgttt actatcattg ctattatttc 60  
 tttcttcac attaaaggaa acacttgggc tgtcagatcc ctccaccttt gggcgcatc 120  
 tttaaaacat ccgtgcccc tttctgcaca tgttctgtag ttgcaccta tccgaagaca 180  
 ttatactgac actgcctaac gaaggcaacc attaggtgct tccaagaatg gactcgggaa 240  
 ggttccaagt tagagtacta ggtaacagct accctagtaa gactttcttg gaaggaatgt 300  
 atcagcaatt cctcatcttt tgcgtatgcc cccatcttcc gacaatacat ctttagatgg 360  
 ttcttggtggc aagtagtccc cttgtacatg tcaaagtcca gcaccttgaa cttgggaggg 420

gtgatgatat tggg

434

<210> 27965  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 27965

agcttgtggtt attctatgat gtgattgcct tttttcttgt ttgagaagat gtgactgcct 60  
tgtttccttt tgtaatgtag tctctacttc tagtgacccat ttgttatccc tatatatgtc 120  
tgaatagtta gctaataaaa ttaaaacttc ctagatgggtg gatcccatc tttaatgttg 180  
tcattttcct aacttgtgct caaaacatca caagtaaatt agatcgttat cctcgaagaa 240  
tgaggataaa tgagtaatta tgtaaataa ataagaacga tgataattaa ttatgtaaat 300  
ttgctattga tgatatactc cttaatgata atggataaga aggaattaag ctttgtatat 360  
ataacaatgt aactctgatt gtgggtgc 387

<210> 27966  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 27966

ggtcctccga caaacaatat atgaggatgg ccatgttatt acactaacga aaaattaaaa 60  
gccgtttaac aatgtatttt ttttttaaaa aaacaaaaaa ttaaaagaca ttttcttcca 120  
taccattcc tcatgaatga ataaaacatt caactttgag gaggaattcc aagaatatat 180  
cccaacgcaa attaaaatag tgcttaagtt tatcccttga aataatgtga atatctttt 240  
catcatgcaa tgaaaaaatt aaatgatgcc tacaattttt tttatccctt gcaacaaata 300  
tgtggttaat aatataaaaa agattattat cttattttatt ttcaaaattt tgtccagcca 360  
aaaaagggttg tgtaataga aacaaattac aaataaaata ataattatgt aatta 415

<210> 27967  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 27967

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gtcaatggac accgacttaa gtcattcctc acaaaccctt ctttagtgga cgtagtggtg 180  
gaagagactt ccttactcca ccctactctt cctccaccat gacttaggga gtttttcttt 240  
tcctatctcc ttctttactt ttattacatt tgtccgattc tatttggttg ttttaattgct 300  
tttaatcttt taattgtgct acattgagaa tagtgtgttg ttttaagtatt gaggggagtg 360  
ttctttgggt ttgggttttgc taggtt 386

<210> 27968  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27968

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tgnnatcaaa aaccattagt agttgcatgc aacacagcaa tgccactga ttcactttcc 120  
tgttatcaca ttaagaaaca ttacattgcc aatacaagaa tgtcccttgc cttgatgctt 180  
gctaatccct gacatctaaa cagaaatgga gaatgtagag ttctgcgtgc attgattctg 240  
tagataataa ataggaaggt ccaaaaagag agcacgttcc acaaaatcgg agttctctgg 300  
ctctgattct gatccctact tttttataga cgaaatgaaa ttaaacttaa acataacata 360  
atatgaataa ataatacatg catagacaat gtcaagaaat tctatactat catccaattt 420  
tatactagaa agtttggtga cttttcagaa gct 453

<210> 27969  
<211> 395  
<212> DNA  
<213> Glycine max  
<400> 27969

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atcaaaacgt ttagaaactc tggaaatcga ttacaagtat tgtgtaattg attacacaag 120  
atacaaatga tttgaaaata ttttatcact agttgtgact cttgaaatta caaatctaac 180  
gttttaaaac attggtaatc gattacatga ttatggtaat tgattaccac tttgtaaadc 240

agttctgaaa ataatgctgg atatcggtaa ttgattacta ctttctggta atcgatgacc 300  
 atagagtaaa actctatggg aaaagatfff gtgaaaaatg cttgtgctac tcaatgattt 360  
 gaagaacctt tttagtactt atccttattg agtet 395

<210> 27970  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 27970

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 ctaatatfff tatgcacatt taccattagt tttctttggt ctttttattt ctaacatatc 180  
 attattattg gagattgatt gaaacacaga atgaaacttc gaacttaatt atcgacattt 240  
 cactgagaac aaatccgtta ctcatagtga gtgtgattcc aaaggctgaa attgaagtaa 300  
 aaaaacaaag agagtaatgc acacgattgc gaatcatatc gacaagggtga atgataacag 360  
 ttatctacga ggaacaaaca tatgctattc t 391

<210> 27971  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 27971

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 ctaagcgcat agacccatga ttggttggct gaatagtffa gctaagcgca catcactgag 180  
 ctaagcccaa catcttcatg gtaattgaac cttaactagt gggcttagcg tggatgatgc 240  
 actaaccgcc acttattctc tggaaaattt ttattgtagc agcgctaagc acaccatcct 300  
 gcactaagcc ccagatccat tctgtaactt gagtttttaa gctgggctta gcgggcccagg 360  
 aggtgctaag cgccaatct 379

<210> 27972  
 <211> 437

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27972

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tttctctttt tactcaagtt atgaattccc ttaaagacaa tcttcttaaa tattaattca 180  
aacgaagcaa cttgaatgtg aatataaagc aataataaat aaaagagatt aagggaagag 240  
aaaatgcaaa ctcaagtttta tactgggttcg gccacacctt tgtgcctacg tccagtcctc 300  
aagcaaccg cttgagagtt ccactaactt gtaaattcct tttaacaagtt ctaaacacac 360  
aaggacaatc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420  
atccctttag agaatga 437

<210> 27973  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 27973

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tcttcttatg tcttgttcta tcgaggagga ccgagcgtct ggaagcccta tgtgtgaatg 120  
aatatttaga ctcatacaat gagagtttgt aaatgggaga tcccatactt taatgtagac 180  
attttactaa cttgagctcg atacatcgca agattcttat atcgatattc tcggcgattg 240  
gggagaaatg aaatatattg tataaataat gagaacgatg ataatttata atgcacattt 300  
gctcatggag attgacctcg taacgattat ggaagataga gcagtctcgt gtgaattata 360  
acatagacct ga 372

<210> 27974  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27974

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atcctcttta ccctttccct aggcataaag aaaattagtt gtcttcttta gtttgcaatc 180  
caaaggattt tctcaattac aattgaaatc atagaatcat gtaaataagg tgcacaggcc 240  
aaaaacaagc attaataatg gaagaagaac aataacgatg ctttattaaa tagaaacaat 300  
gtaggaatta cacgaaagtt gaatcaatta cattaaatcc caacaaaaga gaacagttag 360  
ctactcatag ccatgagata gaagtttttg atgtangaac aatggaggat aaatccaaac 420  
atatctaaag ttgtcaca 438

<210> 27975  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 27975  
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ggggagcgcg atattgatcg aataacacgg gagagaacga gccctatgcg tagtgtgtca 120  
cgccagtctc gcccatcgaa gtgacctcac tcgcatcaca tgctttctatc tctctgctcg 180  
gtatccagct tgaaaacatg tcttgccaac tgtatctttg aatgcttcta cgcgaaact 240  
tcgttgacaa gctagaactt aattacacac accctctca taactaagct cacctccttg 300  
agaagcttcc ttaagaagat tcctatagaa gctagagctt agctacacat acctctctaa 360  
tagctaagct cacctccttg agatgagaag c 391

<210> 27976  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 27976

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tctttgagcc agacttcgcg aacagtgtag ggggttctgt gggttcaagc gaggacaatg 120  
taggttttcc ggcaatgtag ggggatttgt gggttcgagc gaggacaatg tgggtgtcga 180  
gggagcgggtt tctggcagtt ttcaggcggg aggagaaaga gaagagtgat ttcacgggtga 240



caaagagaag agggaggggca aggcctttcga gcgcacgcag cttgtgagtt tgtcgtcgac 300  
 atgcccgtcg cgggcgggcg cttcagctac ctccgcgtca cctttgggtcc gtgctttcca 360  
 atgtcaccgt cgccagaagc ttgacggcgt gcctaggcac cacaatcgga atc 413

<210> 27977  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 27977

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 aaacttcatg atttacattc tccccctttt tgatgatgac aaccacctgt aggttaggag 120  
 catcaacaca gaaaagatat ctattcgcat atagtatact cccctcgga tttgcaatga 180  
 ttgcttatat gagacagttg aagatttcat atttatcata tgtaaacaaa tagtctcata 240  
 aacaaaagat aatttttctt actattttat cctttatctt tctctcccc tttgtcaaca 300  
 tcaaaaacaa atcatgaata gagaggagaa agatgttacc acttggtgca atgtattaga 360  
 atcaagtgat accaaaaggc attaaaacaa tc 392

<210> 27978  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27978

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 ttttaatatata aaatatattat gcacatgcgt atgtgtagaa tatcccacta tttatgtcaa 180  
 cgtacaagga catccaacac attctaattg ccatacatat atatgcattt gaaaagaaca 240  
 cacattctca tgctcaaggc attgcgtcaa aattcacacc taatcacatc ctanacactt 300  
 gctatcacga actacctaca catatttgaa acatatatca tacaactttt attgtttcac 360  
 tcacatttat ttatatgcat gttggaaaac taattacgtc atgcatacaa gtgcattcaa 420  
 a 421

<210> 27979  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27979  
  
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 tagatctaata ggtgaagctc tgaccagatt caaacgacta tcacttttta ctcggaatgac 120  
 agagtgtattc cgtgaatata tggatacgtc ctaaataaaa tggagaagct cttagcaaat 180  
 tcgaactaga attactttgt actccgatgt ctgattgaag cccataatat atctagacag 240  
 ctgcaatgga atgttgaagc tct 263

<210> 27980  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27980  
  
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 tcgctcgtttg aatttggtcg gagcttcaac attcaattta cagcgtctcg atatatgacg 120  
 ggactcaatc agacatccga gtaaaaaactt attctcgctt caatttgctc tgagagttca 180  
 gaattgaatt tcgagcgtct agatatatta cgggactcaa tcaaacgtct gagtaaaaag 240  
 ttattatcgt ttgaattagc tcggaacctc aaaattcaat tttgagcgtc tcgatataatt 300  
 acgggactca atcacacatc tgagtgaaaa agttattgtc gtttgaattt gctgaaagct 360  
 tcaactttca atttcaagcg tctcgatata ttacaggact cactcagaca tccgagt 417

<210> 27981  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
  
 <400> 27981  
  
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 ttacgtgtgt cttgatcctc tatgagagga tgtccatccg gacgatgcat atcatgtgta 120  
 gctgactact atggactata gtcacacgtc cacatgccac gtgtaatgct ctagtagcga 180  
 ataatatcgc acatatcaat tatcatagga caatgtaacc atcatgatca accataggtg 240

gaacc

245

<210> 27982  
<211> 408  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27982

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gtccttaatg atccacattg tgcattgatg attgcattga ttgagatgat gtgcaaagtt 120  
aggaatttta caattcaatt gttgtaatta aaacacttat aactgaaaca cttgcgagat 180  
taagagaaac actagccttg tgaggaataa agattggtga ctcatctgtg tgacttgtca 240  
ttcttgctaa atgattcatc tcgaagtgcg tcattttcgt actcctttca tgaacttatg 300  
acaactgtga acttgagaat angtcattga agcttttgga atgtatgtag ttatctcatg 360  
tattgtgata ggtaaactct aaactttatc tcagtgtaat tagtactt 408

<210> 27983  
<211> 367  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 27983

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ccaagtcctc cgaagtcttg agatcgaact ctttctatta catgtgagaa tgtgttcatg 120  
ctctactcct catttccact agacgcacac acttgagaat gactatgagg aatagggata 180  
aaaaaggaaa ccagacaaaa taccactag aaaacaattt tgtcgaatct ataagctact 240  
tgaactagcc gtaaagggtg acacgcgtat ctttaagcaa atcacataat ctaaaatata 300  
ctatcatttt gttcaacaac ataatccacg ctttaatccag ataaacatgc gttcaatgga 360  
tcataat 367

<210> 27984  
<211> 267  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        27984

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 accttgtag atcattcttc ggcacatcc aaatcatgta ttcatacatt cacacatggc    120  
 acttcacaaa tccacgtctt ggcttatect agcacgccac tctatgagaa gaatacgttg    180  
 gccccttaca taaacatcca gctcctgagc taacctccat tgagataagc atgcacgagc    240  
 tctaaataga atgcgagctc cttccac    267

<210>        27985  
 <211>        392  
 <212>        DNA  
 <213>        Glycine max

<400>        27985  
 agcttctaag ttggtatact aggtgaccac cgccccggcc aagctttctt ggaaaaaatg    60  
 cattatgagc ttctcgtctc tggagtatgc ccccatcttc taacaataca tttttaggtg    120  
 gttcttgggg caactagtcc ctttgtactt atcaaaatcc ggtaccttga acttcagggg    180  
 gatgatgacg ttaggcacta aacacaactc tgccatgtca acgaatgggt aatcaccaat    240  
 cccttcgatg gcccttatcc tctccttgat gagatccaat ttctcccttc cttccacggt    300  
 cggagggagt ctccccactg agaagtgcag aggttgagc gggcagtggt gaggagcccc    360  
 cgtggtattg ggttggggca taccactaca tg    392

<210>        27986  
 <211>        365  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        27986

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 gtatctgagg atcacttgaa attagtga aaanaatcat ttccgtaaag aaaattcaag    120  
 ccgagggcgt tccataacgc gtccgaaacg tttccgtggg taattttgtg aagatattcc    180  
 gccgtctttc gttcgttctt cgtcgttctt cgatcttcaa ccgtaagtgc cccgaaattg    240  
 aacttttcaa ttcattctat gtacccttgg tgggtcccccac ttgtttcgcg tacttttatt    300

ttcatttaat ttacttttcg taccacctta tgacgagatc tagtcattca ttgaagacat 360  
 tttct 365

<210> 27987  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 27987

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 ttgccccaaa ccaagcttgg tcaatcccg cccaacccgg gcatagtcgg tcagtgagaa 180  
 cctgtgatgt acctaaacag gcgagcttct ggagtcacac agataaaagg aacaaagacc 240  
 acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtgac atgtgggttg 300  
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta aaaatgaaga 360  
 caggaggcta agatggtctc tggtaatcga t 391

<210> 27988  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27988

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 ggggtatagca atatctctaa gggctaccgt gtctacaact tgcaaaactaa gaaactcatc 180  
 atcggtcgag atgttgaagt tgatgggtac gctnttttga attgggatga agaaaaagtg 240  
 gagaagaacg ttcttatacc tgctcgacta tctcaagaag aagctgagga agaagatcca 300  
 ggtgaaccac cttcacctct accataacaa caagatcaag aactagcatc accagagttt 360  
 actccaagac gagtaagatc tttgggtggac atgtatgaaa cctgtaactn ggtcatactt 420  
 gaacctggaa gc 432

<210> 27989

<211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27989

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aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaaaggg ctacacgtcc tcgccttcag aggactacac gtcctcgcct 240
tcaaagggct acgcgccctc accttcaaag gactatgcgc catctctttg agagggctac 300
acgtcctcac cttcagaggg ctacacgtcc tcacctcat agggctacat gtcctcacct 360
tcatagggct acacgccctc accttc 386
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<210> 27990  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27990

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actatgaaag gattaataaa tctcaccctt aatcccaaatt tcaatttctc aaatctcaac 180
ataatcatgc attaactcag aaaattaaaa aaacaaaaaa gggaaaaaag cacaaatcat 240
aaaaaatgaa aattaaagca tagaggaact canatttacc atagccttga gatcctagga 300
ttgaaaaact tagaactcca tgagaatctt tgttgagggg ttttaattcaa aaattaagaa 360
gagagaggaa gngagaaga agagagagaa gagaacacan aaacttagaa ttgaaattnt 420
ataaaatgca agtgtaatgt aat 443
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<210> 27991  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 27991

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 tatatatata tatatatata tatatatata tatatatatg tacaacttat attttcttgt 180  
 gtaacggtag tttgccttac acttttatgg aaatctttca acgtcatatt ttattattta 240  
 taatctaaga aattaaatta gtgaatcata attttaatcg agccgtccaa tttagaggtc 300  
 gaagataagg atgctttcaa ggtgtcttaa cctaccattg agtcacttag gattgtattg 360  
 agggcaactc agaccttcct ttgagggact ggat 394

<210> 27992  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27992

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 tctagcatat tctttcttga caagatagca ttagattcat cacaggtaac atgaatggat 180  
 tcctcgatat tcatagttct tttattatat accctatatg ctttgctttg taatgaatat 240  
 ccaagaaaaa tgccttcata agattttgca tcaaattttc ctagattatc tttaccatta 300  
 ttgagcacia agcatttgca accaaaaaca tgtagatgag aaatattagg ttttctacca 360  
 ttatataact catatggngt tttctttana atgggtctta ttaaggccct attcatgatg 420  
 taacatgcag tattga 436

<210> 27993  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 27993

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 aacacaaagt tcaagatcat cacaggatcc aaacacaaac aacacacagg gagtgagtta 180  
 tcacattcct aactaatgga gagaaacaag ataacatgta ggtataaata tcatataaac 240

aaaatacaac ttacttaagc atcactcaca ttatttcacc actttttcgc acaacattac 300  
 atcacaacac cacacatttc gtttattttc acaacattct cgtactcaag gatcgaaaca 360  
 caatatcatc aagtcaatca atatcgatca atacacaag 399

<210> 27994  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 27994

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 gataatgtgt tgcaattgat gcaaatgggc ttttcaagat taaaattcaa gacaatactt 180  
 caagattaca aggcacaaca tcaagatgat cactagaata ttaggaaggg aattcctaata 240  
 tgaattagca aaggtttggc caagtgattt aaaataaaaa gtgtttttca aaggttttac 300  
 tctctggtaa tcgattacca gaggatgtaa tcgattacca gtggccaaat acattntata 360  
 acagctataa aaatttgaat tcgaaattnt aaaagctgta atcgattaca caatattggt 420  
 aatcgattac cagcagttag taaacg 446

<210> 27995  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 27995

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 aaggataaga actgctcata gtaggcagaa aagttatcat gataagagga ggaaagatct 180  
 ggaattcgag gttggtgatc atgtattctt gagagtcact acatggactg gggttggtcg 240  
 agcattgaga tcccgaaaac tcacacctca ctttaaagt cctttacaag tcttaagagg 300  
 actgtgcttg tggcatacca aagttgacta ccccatctc tttctaataat tcacaatgtc 360  
 gttgatgtgt ctgaacttcg ta 382



<210> 27996  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27996

ttatanacgc ggggtctggga gacgaaggtc atttggtttc gatatacaaa gatgatgttc 60  
 cgagtagcatt ggatttggtg cgaccatgcc ctcccttgatt ccagctggga aattggcgag 120  
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg attntaaaag 180  
 ctctatagtt gggcctaggt tttagagttt ttccttttgt taaggctttg tgtcttttgt 240  
 ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300  
 ttcatttgca tgtntacctc tttatttctg aaacggcaga tccgatgacg agtccctcga 360  
 aggtactaat acctgggacc cgcttatcaa ctccgagcaa gaaacgaatc 410

<210> 27997  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <400> 27997

agctttgtat gatgaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60  
 tggtagcttg agatatgtcg cgggggtcag gagaccttg ggagccagg tggggtgcta 120  
 ttgccccaaa ccaagcttgg tcaatcccg cccaacccgg gcatagtcgg tcagtgagaa 180  
 cctgtgatgt acctaaacag gcgagcttct ggcagtcaac agataaaagg aacaaagacc 240  
 acaatgcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtgac atgtggtttg 300  
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta aaaatgaaga 360  
 caggatgcta agatggtctc tggtaatcga tta 393

<210> 27998  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 27998

acgcctgact tgtgtgatgc catgacgtgc ctatnactac taagcttgag cttgtacaag 60  
agaccnacga ccggtattat atcatttgca acaagagatg caccacgagg aaagtctgaa 120  
ggagaactca cgagacgatg ctgaggactg gacatatcgc tagaaagata cataaggcca 180  
ctcagataag cgaagggcga acaaagagac tcatacctctt tggatacgcc gataaatatt 240  
gcgtatgcac aaatgaagtc cagctgagat tctgccctga aaagcagcag aactacgggt 300  
aatccctatc ttgcacatgc tgtatgctaa tattcgagag aatctcctat ttgccatcac 360  
aaacaggctg atcaatggct atcaatatcc cagctgactc tgctacgagt aaaacatgtc 420  
cagggtccagt gacagccccc ctctaagtga tgctggagac tcgaatagca tacatatcgt 480  
can 483

<210> 27999  
<211> 386  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 27999

agcntttggc ggcaaagggt aagctatcaa gcctcaagca tgttgatggt ggtgcttatg 60  
aacattgtat ccttggaag cagaaaaagg tcagtttctc aagggtaggg aagactctga 120  
aagctgaaaa gctagaattg gtgcacacag atgtttgggg gccagcccca gtgaaatctg 180  
ttggaaactc acgctattat gtcaccttta tcgacgactc taccagaaag gtatgggttt 240  
attttcttaa aaataaatct gatgtgttct ctgtgtttaa aagggtgaaa acagaagttg 300  
aaaatcagac aggtctaaag gttaaaagtc tgaaatctga caatgggtggg gagtatgata 360  
gtcatgagtt taaagacttc tgttca 386

<210> 28000  
<211> 302  
<212> DNA  
<213> Glycine max  
<400> 28000

ggtgtcagcg tctatgcgag acagagacca ttatgtttgc tatcatcgcc aagtaccacg 60  
aggagacagc gtctagccac agcccacgag catagaatcg ccgaagaata tgcccaagta 120  
tacgcggaaa aagacgctag aggaagggcg atcgactctt tacaccaaga ggcaaccatg 180

tggatggatc ggttcgctct taccttgaac gggagtcaag aacttccccg attgttagcc 240  
aaggccacag caatggctga cacctacttc gccccgcgat agatacatgg gcttctcggc 300  
ta 302

<210> 28001  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 28001  
agcttgtcca ctgttaattc gagttaccac tcaggctcca aagtttgacc tatctgagaa 60  
gtttgattct gtggcatgtc ccgctcatga atgaaaggct tgacactttg atagtccgat 120  
gtatgatgct tcagacaatt gatttgcttc actgcgctga actttcccggt gtggagatct 180  
atgcggccga gcatagatat ttcaagatag cgagaatagc tgggtgtaat aatatggcaa 240  
tggttgaagt tgttggccca actcttgggt gtgagcacta tcgttggcac ggaccaagca 300  
cattaacatt ccacgcacct cgatggagtg atgccttgggt caatgatgtg cctgctggg 359

<210> 28002  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 28002  
tatgcaaatt atatcaaatt ctaggcaggt tctgatttag gttttgaaaa atcaaagaaa 60  
tgtttgaatt gtaatttttg ttctcttaatt tttttaaatt gataattttt gatttttgta 120  
atttctaatt ataataattg ctgttcttag ttgtataaat ttacgacttt gattctcttg 180  
atagattgtg aactaataat tatatttaca aagaaaaata atactaatga ttattaaaga 240  
tcttacatta agtagaaaatt caatataaat tattactgat cagaaattct aataccagat 300  
tattaactca agcatgttat tagagtaagt gaagtcgcgg gtgcacgacc gaatatagaa 360  
aa 362

<210> 28003  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 28003

taagcttatg ctactgcatt tgaataagta catttataag tttatttgct taaaatcaaa 60  
tgaaatgtat gggattatct cgcttgaggt ttcctttatt gtaactcatc accttgtata 120  
atgctagcaa tttcataaag gtcaaaatgc ttgtggttga ccataacttc ttattgcagg 180  
gcactatggt cccgatgtta ttgtggctgc attaattgga attgtaactg gttgggtgcac 240  
aggccctcta atgcccatat gtgggcattg gttagccagg tcatccatct tgcaatttct 300  
gctacatctt agtgtgtttg ctttggcatt atcatctcag ttctttcctt acactatgtc 360  
tgcgccctaag aggattgttt ttcagcata 389

<210> 28004

<211> 419

<212> DNA

<213> Glycine max

<400> 28004

tgaagcaaag tgtaattgca tcataatgag agagttttat tttagattgc ccttacaatt 60  
tgtgccagca tttcttctct tcccgttggc ctatatatac acccgagcag agcttagcca 120  
aatgcttgcg catggcttta ggtttatggc tgtttgggat agtagccaat tgttatttgt 180  
cggctccaat atatatcgta agatatgcaa ctttgtgttt aacataattg taaagttatt 240  
tttttccctt ccttttttgt gggtaggcca ttttaattga ggcaattgga ggattgtgct 300  
cctcaagttg ctccattctt gttatctgat ttccattgag atgaagtgat tcatcaatgg 360  
aagtgtgaag tagaactcat tcatattcgt taatattgtg aaaagcatat tgatttctt 419

<210> 28005

<211> 372

<212> DNA

<213> Glycine max

<400> 28005

agctttttaga gttatgtctc gtatcgattt aatcaattat agtagtattt taattcatta 60  
ctctgttggt tgagacaatg actaatttag ttaggagtct ctactttaat caattaccaa 120  
gtggattaat cgcttacttc tctctcgttc aagtgtttag aggtgaacaa taacacttta 180  
atcaattact taggtcatct aatcgattac attgttcttg agttgttttt cagatattgg 240

atgaacactt taatcgatta ctttgataaa ataatcgatt acottataga tttaatcgat 300  
 tacagatggt tataacttgt ttctttataa ataaccatct tgtgttcaca tctaaaatat 360  
 catgagatca tt 372

<210> 28006  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28006

nntgggctga ggacctatat aacagttcca atgtttttgt ttanggagtt ttttttcgga 60  
 gaggagaata attctaggat tttagaattt cagtttttat tactgttcat gcacactggt 120  
 cacgtagaat aaaattcatt ttttgcaaat catctctaatt ccatacattt tttaatatta 180  
 tgctcttttt attttctttt gatatacttt gtgctttaac gacttgaatt caatatgatt 240  
 ttgtttatca attatttttg gatttgtaca ttacttatac gaaattttat aagtttcttt 300  
 ttttagttag tatttccacta ggttttataa taattaatta atcaaagacg tctntaaata 360  
 gacttttata taggctcgt 379

<210> 28007  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 28007

agctttactc ttctaaatgt atcaggtctt taacaagtac aatctacgag aattcttcat 60  
 acatttggtg atagagttct ttaaccaata gtttgtcaat cttttcaaca aacatctaatt 120  
 tgacatgtga gttttcaaatt cactaagaga atgttcagga atccggttgca aaattatggt 180  
 aggggtaaag gtaattttac gagcggatta aaactcttac ttttgcatgt gttttatattt 240  
 tattgggttg atttgcattg aatgcacacc acaacattta caacgcaaac caaacatata 300  
 ctagggcccg tttggtggcc aaaatataat aggataagat aactatcata tcgtgctatg 360  
 aaagcaacaa gataagata 379

<210> 28008

<211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28008

ntagaggggtt gaggcatagaa cggttgtatg atcatattat cgtactcttc aatgatagag 60  
 agctcaacac acatgaagta gaacttggag aaaggcaaata ggacaatgaa ggaatattca 120  
 tgattagact cagccgaaaa ctatcttgct catggtctaa gcatggtgct ttcagatttt 180  
 gtaggaaagt attcatgtcc atggtaaata aagaattttc catattcctt ttggacactg 240  
 tctataggag gtttctcatg atattctaaa cctaagcaat gctccttgaa ccattgcatt 300  
 ctctcaaaa tgtaccaatc cttattagaa tgactggtat tcctcttgat ggcttcaatc 360  
 ttatgcttga aggggtgact angacatact ntaatgaatc tagttgangg tgcacttca 420  
 tcttc 425

<210> 28009  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 28009

agcttttagt gtttaagtgt gtaagggatg gacttcctac ttttattcgt tgaccacaga 60  
 gtggatctg gagatatgtc gcgggggtca agagaccttg gggacgtcag gtgggggtgct 120  
 attgccaaa accaagcttg gccaatcccg acccaacccg gacatagtcg gtcagtgaga 180  
 acctgtgatg tacctaaaca ggagagctcc tgacagtcaa ccgataaaag aacaaacacc 240  
 acaaagcaag gaggcttggtg tgggtggctgg ccagctatgg atcttgagta atatttgaa 300  
 tatggctctt ggtaatcgat taccaagggt gggtaatcga ttacaaggct taaaaatgaa 360  
 gacaggaagt taagatggcc tctggtaatc ga 392

<210> 28010  
 <211> 352  
 <212> DNA  
 <213> Glycine max  
 <400> 28010

aactgttaag cactcagaaa gggacgaatc gtctgtgctg tatgtccttg ctaaaccatg 60

tttggtaaac tcttcccaat tagttggaca actatgacac tgttctttat gaaaaactta 120  
 ttcttacatg atttgctata ttatttatcc tttctccacg ttctgctaata atttccttag 180  
 atttattggt tggatattgg cataatgtca tgcataaaaag tatatacttt gatcgacatc 240  
 tatgattgag ctgctgggtg atatgagtcg cgtcgcattt tagcatatta ttatgtggcc 300  
 ttttacttaa attaaacaga tgatgcgttg tatacgtctt agatccgcat at 352

<210> 28011  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 28011

agctttatgc cttctttcat attcaaata aatcagtgtt tcaaaagttg ttcttttata 60  
 aagtccatgc aaaaatatct gagttcattt ggtttttggg aaagtccttc attgtttttc 120  
 attctcaaat gttttcaaaa gaaatccttt tggtgtcttc tgatccaaaa ataagtttca 180  
 aaaatactag ttgttgattt tttccaaagg atgttacatt caagaaaaaa aaaatttaag 240  
 tcccagaaag agttataatc tataactata ctaatagaat ataaaagcac gcacaaatta 300  
 gtcaaaataa actcgtgtaa gctttttcaa aaattcaaaa caagttcaaa tcatgggtga 360  
 agagctcaat ctccttgacg atcatgggtg 390

<210> 28012  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 28012

cttcaactgc acaaggctag caatatattgt ttagtattct tgtggagcct tcaactgacg 60  
 agacactctg acatatactc ataccatcct tcatggacac agtatggcaa gctgagcgct 120  
 agtggagctt attcccatca gaccttgact gcacatgaga tgctatgcac atatcggcta 180  
 catcttgacg accatcaatc cttcctgatg ctacgcttga aagctaagga gcgtcctgct 240  
 cacgctatta caaacatttt cctcctcatg cactaacatc gacacactgt ttgacgttct 300  
 gatcagacga gcataggaag atcaatgcaa ttggacctca cataccatat gcac 355

<210> 28013  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 28013

cgcttatgaa gatacaataa tactttttgc ccaagcatga agcccttctt aattatcatg 60  
 ctatcatgga acttcttggg ctttacttag aagaacttgg cattctcata cgcttctatg 120  
 cggatctcat ctaactcact caagtgtac tatctctcct caacagcttg atccatcgag 180  
 aagatgcagg tcttctactgc ccagtatgct ttgagctcaa tctacactgg aagatgacat 240  
 gcctttccat agacaacgcg ataaggagac attcctatgg gcgctttgta tgcaatccta 300  
 tatgccc aaa gagcatcagc catcctagtgc cgtcaatctt tactgcttgg ctgcacaatc 360  
 atctctaggc ttctcttgat ctccct 386

<210> 28014  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 28014

ccttccccctt tctataatgg gggaaaggat ttatatatttg ttattccctc ctggcaagac 60  
 agaatcactt aaaattacgg aaaacaatcg gtttcatgaa gaaaatccaa gccgaagcgc 120  
 ttccgtaacg attctgtcgc gttcccgtag gtgaattcgc taacgatttc gaccgttctt 180  
 ctacgatctt cattcgatct tcatcggttct tcaggattca tccggtaagt ttccctaaatc 240  
 agacttttca atgcattcta tgtaccctta gtgcgcctca tttgcttcta cgcgctttca 300  
 tttacattcg atatactctc tgcaccctct taagacgcgc ttaacccttg atgggagtc 360  
 tttctcgctt a 371

<210> 28015  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 28015

agcttgtaga gttgtctcaa gatactacta tgcaacttgg aagaataaga aaatgggtgg 60  
 ctcttctctc ttgaagatct catgcaagat ggagaggatg aaggccaag tttgtgattt 120



tttagaggaa attatgagaa ataaggcaaa gctagcgatg tgctcgattg tcaagcatga 180  
 atgaccattg tttatgccat gggggacatg caagaggctg ccacaaatgg gtgggtcttgg 240  
 ttctgaattt tagccagaaa tggataaagt agacataagc aaaaaaggta aaaattaatt 300  
 ttgccaaaac tgataaatct tatcttacat gtctagatta atgcattaac ctcctagatt 360  
 attgtgttaa tttgcctaag gatacatgta ct 392

<210> 28016  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28016  
 agaggcgaga cggtgactcc acgtcagact cgttatcact aatggcgagg ctatcttcac 60  
 gtgagcttct cgccagtggg agcaacgaga cagcttccac gtcagctgtc tcgccattga 120  
 caatggcggc accctccacg tcaccaagtt tctcgccatt gacaatggcg gctagcgttt 180  
 ctcgccacta ctgctggcga catccatggt aaaacagacc ctgcttgtaa atactttgaa 240  
 aaaagactct ctttagtaat tagtttataa atggaccctt ctgtgggtaa ttgggtccaaa 300  
 taatatcaat tcactagcaa ctgggttcatt tgactatatt aacatatctc gacctttaga 360  
 taaagtaaaa tagcaaataa ctaagtatct tgtcataact tagttgaata caaacatc 419

<210> 28017  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28017  
 ctgcagcttt tagncattct tgtagnagcn ccaacgacat ggattctaaa tctttggttt 60  
 cctcgactgc cataacaatg tgctcaaatt taggatctaa cgagcatagt atcttcccca 120  
 tgattcttac atgctctaaa ttctcaccat gtcttttatac ttgaggtgaa acaacgataa 180  
 ttcttgaaag gaactgggaa atggacgtca actctttcat atgtaatgat atagactctg 240  
 ctatgagcac atgcacagaa acgctcttta gttgacattg gttatcccag cctaccattt 300  
 tacggtggcg cgaacaggcc aatatgatga cgtcgaagcg ttagtctcca agggagaaaa 360

ctagcagagt caccaccaac gtgtatttga cgaaaac

397

<210> 28018  
<211> 395  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28018

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aactcttcaa aatagttctg actttttcaa atggttttta agtttttcta acagatataa 120  
ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag gctttgtttt 180  
gcattctgaa tcaatcattt caaatatttc taacaaactc ttacaatcct ttacaagcct 240  
tgaaatctct ttgaagttct tcttcttctt ctttgtacca aaagctttat gaagttttct 300  
ggttttccaa accttgaaaa cttgtgctat tcatctgttc attctcttct ccctttgcc 360  
aaaagaattc gccaatgact aaccgcctga attct 395

<210> 28019  
<211> 361  
<212> DNA  
<213> Glycine max  
  
<400> 28019

ttaagctttg agccaaaatc ctgactcacc ataaaccttg acccaggggtg agaatgtcaa 60  
tccttaccct cggaagcaaa aaaagaatag aggggaaatt tccaatcaaa gaaaaagaga 120  
aggaaaattt ccaatgaaag caaaaaaaga aaagaaggaa aattccccaa tcaaagagt 180  
ggagaaagca aaaagaaaag aaaggaaaat tccaatcaa agaatgggag aaagtaaaaa 240  
aaggaagaag aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagaaat 300  
gtgcagagag gtctttggac cggacaatat ctgaacaata cagaattgcc accaaatgaa 360  
c 361

<210> 28020  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 28020

cgggtgatgt tgcgcgtact gatgggtacc tttatgtttt tgctgggggtt tgaccacacgc 60

ggttgttgaa gagacggcat gggcatctcc ttctttcctt tttgcccctg tcgccccgat 120

tcttttggca ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180

ctcgattctt tccccggcaa acgccagatc cgcaaagctg gacggcatgt aaccactag 240

cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300

catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttanaggt 360

ttcacctctt ttcttgaaca tattctgcag ttgagtacgg tcaggagcca tatcagaatt 420

gtcctgatac t 431

<210> 28021

<211> 359

<212> DNA

<213> Glycine max

<400> 28021

ttctgctttt atccaaatgg acttaccttg aattaattcc tttgatagcc cctttaagcc 60

tatgggtccc tttctttgtt ttgaagctca ttacaagcct tacgtgaaaa accatgatat 120

caccttacc ttaaggaatt ttggagcgtt ggaattgggt tgggaataag ctgggaataa 180

acgtgggggg gtatgtttca ttggaagata taattttttg ccatgctcga tgtatatact 240

atatataaat atatatctat atatattgcc tagatcttgc tataatcctc aaatttgtac 300

tgttacacac aaataagaga tgatgaaata taaattcaat tgctgcaaat gctataaat 359

<210> 28022

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28022

gttcatatac atgtcttcaa agcttatggc attttttgtc ttcttcaaca aatgttcttt 60

gtctttaaat atatagattt cttcacttga gcttgtgtct aatgattgtg atcgttggaa 120

catttaatat ttccattgat acacatactc cttcatgctc aaaaaaatca cttttgtgtt 180

gatcacttta gcagaaaact aattgctcta agtcaaagta ggtttgtcat tagccgtgca 240

canttttgtg atggtaattt tcaactctca gatcttaaatt tttattttatt cttcatagga 300  
 ttcaacatat cttaggaaaa tatcatatga atctcacaca tagagtaata aagaanatct 360  
 tcaatgtcat cctttaatgc tatatcaaatt catgaccttc tctaaccatc gtc 413

<210> 28023  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 28023

ttagcttgtc atggctttct tttcaaacgg aaatttgaaa caaatgactg agttcaccaa 60  
 tctggattgt tatgccatga agatgtttca tagactgaag gaatgctgct ttattttata 120  
 acctgatgag aagccacttg catatgcggt tcaccatgaa gttggacaat actatcagac 180  
 cctgaaccat acttgtttca cccaagaaac atcattcaac atgggatgta catggacata 240  
 ggagctctat gttgtgtctg attgcacctc tccttcgtag agttcctgcc ctatttcaaa 300  
 ttctttctca cacaccatgt ggatcttatc attgaagatg ctgcacatga tgttatatat 360  
 atactttatt att 373

<210> 28024  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28024

aggcacctgc tgagncattt taattttttac ggctngacng gctcaaagac aatgatcata 60  
 ctaccagtga cacgatggat aatcgcataa aagggcttcc cagaggtctt gcaatggata 120  
 aagacagggg taagaagcaa aacctctgca aatcctatag ccttctgcaa tgcagaagca 180  
 cttgggtgcag tgaatagagt ttttatgtca gtgccaatac caagggcagg gtggtcacca 240  
 aactggggga cagcatggct caccatgggc agcatttcgg gtgcgttctc actgtatgca 300  
 atgaccttgc atgtttttct atctaaggcc aacaagcacc caagaagctg aatcatcttg 360  
 cctttctgca tgtg 374

<210> 28025

<211> 386  
 <212> DNA  
 <213> Glycine max

<400> 28025

agccttcttt gccacccaca tcccgcattc atccggtttt tcaactgttcg atcctccgac 60  
 catatcgccc accattgtca tccacagaaa ccccatctt gctccctagt tcagccgaag 120  
 acaatcaacc aattattacc cccctcacca tactgaccac aaaatggcta ggctctggaa 180  
 gtcttcgaca attactgggtg ttagtccaat ggtctggcct cctcccagaa gacacttcgt 240  
 gggagccatg gttgaccctc aaggaaactt acatccttga ggacaagggt gttttcgatg 300  
 cacacgggaa tggttatagcc aaagacatag aacaccaaca tccagaacaa gaatcaagca 360  
 agaagcacca agaggcagaa acagag 386

<210> 28026  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 28026

aggaatccga ggacctcttt agatttgggt atgaagaccg caaatagggt gttggagtta 60  
 ataaattcac cactgatttc tttggaatac agcttttctt gaacaaaatg gcaatcaatc 120  
 tctacatgct tagttctcat gacatacaag attagacgag atgtgaagag ctgctgact 180  
 atcagaatac aacttcatct gtggaacatc aaaaaattgt aattcttgaa gttgtttaat 240  
 ccacacgaat acacaagtaa caagagccat agctctatat tctgcttatg cacttgatcc 300  
 agcaacaaca ctctgttgct tgctttttcca atagacaata ttcccaaaga ggatacac 358

<210> 28027  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 28027

tcaagctttc caccagtgat caagtcgaag aacctaaagt cactgagaat ggagtaccat 60  
 tctcagttga tgctcatggt aacaactcca acatggcttc agaggaaagt ggcgctgttt 120  
 caaaccaaaa acattttgtg gttcttgagg ccaaaagggt ttcttttatt gcagggttaa 180

ctgttggtga ttccagggcat aaggaagagg acagttacaa gaataaaatt gaaaacatta 240  
 tgtagcatt tcgaaaaatt tactatggga tatgattatg taaatcattc tcaaactgat 300  
 tgaatgctta acatttatac ttattggaat tgaagtccct atgaagacat tatgctagca 360  
 ttttcaaata cttacattac ttcacca 387

<210> 28028  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28028

tgctctaaat ntacattgat ggggngattt attggattag gttatatgcc atttttgctt 60  
 taagagtaac gtccactgg taaaactaac tttccaaatg tttgccttgc caggaatggc 120  
 cccaaggaag cttgcctcaa agaggtccag gaaggacaag gcggccgaag gaactagtgc 180  
 cgccccggag tacgacagtc accgctttag gagcgttgta caccagcaac gtttcgaagc 240  
 catcaaggga tggtcgtttc tccgggagcg acgcgtccag ctcatggacg acgagtatac 300  
 tgatttccag gaggaaatag ggcgcggcg gtgggcacca ctgggttactc ccatggccaa 360  
 gggtgatcca gaaatagtcc ttgagtttta tgccaatgct 400

<210> 28029  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <400> 28029

agccttctcg cttatcttct tatgcaagtc actctcgtgg tggcgaagcc tctccttcca 60  
 tgactcagta tctagtggat gacgtgcct ctaacctctc ctccctttatc tttcgctgca 120  
 attccatggc taaaaatcac cattgaagga ccttattgaa gctcaaagat ctagcctgca 180  
 tagaagcttc ataagcaagc ttccaacaag tggatcaga gcacacgagc ttcaagtagg 240  
 tgctccttaa acctccacta attttcagct ctactttctc ctccattgtt gttacttcga 300  
 ttctctccat gtatctactc acgtgtctag tgctgaatgt ccgtaacata attttttat 359

<210> 28030  
 <211> 403

<212> DNA  
<213> Glycine max

<400> 28030

tcattgccta acaagccaac tcacttctac attcctcttg agactcaaca taatgatgca 60  
cggaccacta ttgcacttgt ataacaattg tatgacctat tctatgggtt gagtaataca 120  
ctatttgact tttatcgcaa atgtcatctt attctatgca aaagacatag ctcggttccc 180  
tttccaacag aatgcctcca tactctactt attgcacact gtgtacacag gcagagagaa 240  
tctccatta cttactgtgc actatgtacc cttgatttga tcacctttct tcttctttgt 300  
gtatataaac tcttctatct gtactaacad tgttgctctg catgatcttg ctctgacctt 360  
tcactcctat tctcaaaata aaatgaaatt cctacttccc tta 403

<210> 28031  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28031

cttgcaacac acgagaaaac aagacgacac cngacagagc aaaaaaaga atccacctca 60  
accaacaggc atccagggtac tgctatacac agcacacaaa cagcactcac caaagggtgga 120  
caataggaac gagcaacagg gggcataaca aaaagaggaa cgagataggg aaaatgggtc 180  
acaacaaaac gatcctacga aaaagagcgc tcgacatcca gaaaccgctc acgcaaggat 240  
acatcacaca gaaggacacg aacgcacgta cgagacgaca gactaacgcc cctcaacaag 300  
acgagcacac taagggaagc gcacaactcc atacaacgac acgaaagaca gcatcacaag 360  
accacacc 368

<210> 28032  
<211> 473  
<212> DNA  
<213> Glycine max

<400> 28032

cgcgctttg gttgtgtaga tgcattggcta tacggcgaca cttagaatac gcagctttga 60  
gaactgagaa tatacagata ttgttggtga atttgtgaa gaactaaata cctttcaatt 120

ccttatcttg agacccaaca cgaacctctc atcggtctct tcagacactt ggacctacct 180  
tcttacaacg caatgtctct cttggacgcc aagagcacac acgccgatgg aagtggcgac 240  
gccctgaaaa actgogaaca aacgtttgct gacacgaatt gtagtacgga gcttatactg 300  
tgctgccata ccagagcgta tgcacatcct cttgacagac gaccttgata atgcctccca 360  
ccactggtcc tcgcactgtg aacttcgtga actaaactga tctcgtctga cataccactt 420  
cctactgctt ggTTTTTctg ctgtacgcac aacctagctt aatctttatc ctg 473

<210> 28033  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 28033  
agcttcctct ttaagcttct tatccaagtc actctcttgg tggatgaagct tctccttcca 60  
tgacttattc tctagtggat gacgtctcct ctaacctctt ctcttttate tttcgtgca 120  
attccatggc taaaaatcac cattgaagga tcttattgaa gctcaaagat ctagectcca 180  
tagaagcttc ataagcaagc ttccaacaag tggatcaga gcacaagagc ttcaagtagg 240  
tgctccttaa acctccacta attttcagct ttactttctc ctccattggt gtttcttcgt 300  
ttctctccat gtatctctc acgtgtcttg tgctgaatgt tgttaacata atttttttaga 360  
agttccaccg attaagcttg ctatagaagc ta 392

<210> 28034  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28034

taacgattat gtaattntct tcatactgct tctctggaag aaattatgct tagagacaaa 60  
gatattagaa ttgtttcact attttacttt tatagtaa at gtaatcttat tctattgttt 120  
gagtaataca ctatttttact tttatagtaa atgtaatctt attctatgca aaagacatag 180  
ttcgtttccc tttccaacag aatgccacca tactttactt attgcacact gtgtacagag 240  
gcagagagaa tctcccat tttactgtgc actatgtaag tttgatttga tcacctttct 300  
ttttcttttt gtttataagc tttctatct ttactaacat tgtttttctc catgttcttc 360



ctctgacctt caactcctat tctcaaaata naatgaaaat gcgtaattcc cttaagctgt 420  
 tggcactccc ctaatccctt ctc 443

<210> 28035  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 28035

agcttttagc gaccccgat gcagcgcca aacaataatt gctgctaata ttgtcactaa 60  
 aaactcaata attgccacta agaactagtt ttggtgtagt gggtatacgt taaagctaga 120  
 ctagaactat ataaatgtca ttctgagtgg tggtgaaatt cactactatg ctggttttac 180  
 tatgttacta ggcctagacc catgtgatgc acggatgatt tatttattta ttatcatttt 240  
 tattggatgt cttaaattatt atatatcaaa aaggcaagta cgataggaaa ggaagtagtt 300  
 gtgttttaaaa atactaatac tttagtcagt aaaatctgac taaatatttt tagaattcca 360  
 agagatgtga aataaaaagtc attcttattt tt 392

<210> 28036  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28036

cctgaattag atgccaggaa ctctccttag atttaaattgt gagaagatag aagttctaaa 60  
 atttcttatt gccttccctt tattcatttc atatatttat agtgagtgtat tatgaaaatg 120  
 ataatgatta atcctaaagg tcttgccagc acacagggga caagccataa cagattggat 180  
 catgggggac aagcactagc agggataggc actaatgata ctcagggaaa tcaagcacta 240  
 cacgataaat tcttatattg tcttttgatg ttaattgctt agtgaatgaa cttctcccat 300  
 cctgaggggc ttttcgtgat tcttcttggc cttggattgt tgctatcaat attactccct 360  
 gtcttttcat tatgatatga naaataatat gaacacat 398

<210> 28037  
 <211> 394  
 <212> DNA

<213> Glycine max

<400> 28037

agcttctagc catatggact taccttgaat taattccttt gatagccctt ttgagccttg 60  
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
atataccttaa ggaatttttg agctttgtaa ttgttttggg aataagtgtg ggggggttttt 180  
gtttcattgg acaacttggt ttgttgacta cgcttcatga tgtattttgg gccatacttg 240  
atgtacattg tatattgggt aaatggttga catgctgaat gaaatggtgt ttctcaaagg 300  
caaaaaaaaa aaaaaaaaa aaaattcgaa aaaaaaatg aagaagaaga aaaaacaaaa 360  
aaaaaagcaa taaagttgag tgaataagat ctta 394

<210> 28038

<211> 432

<212> DNA

<213> Glycine max

<400> 28038

gctgtctctc tctaattgt atatatatat gttattttta tgatataaaa ctaagcaagt 60  
gagtgaagaaag ttttcctcct cacatattca aagcttcaag ttagtaccag agcgggtcgt 120  
atccgccgcc gtccgccgcc gtcgccggc cgtttcaacc ggcaactaca gggttctgtg 180  
cgccctcgagg agcgcaaccc agcccaacta accgctgggc caggagcttc cccacgcgcc 240  
gtctccgtgc gcgcaaacg ccggcgcggtg accaccacgt gccgccctcc ccttgccgga 300  
aacgcgcgca tttgcttccg accgtctcgt cgggctctcc tgagtcata tcagccatta 360  
gtttttgggt tcggcacttc gttgagtgac cttgtgcctt ccttggtctt ctactttaag 420  
ttcctttgat ct 432

<210> 28039

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28039

agctttatga attttatana gccagaaaa gtaggaataa ttaaggaaat tatagctaac 60  
taaggaaaga tagctaattg aggaaagaat ggctaattaa ggaaagaaga ctaattaaga 120

aaagcagaat aattaaggaa atcagactaa ttcaaaaacc tgctaatacta cacctataaa 180  
agaagatgaa aaaagaagga aaagacacac ataaattcca atacaatttc ttatagaaga 240  
caaagactaa aagaaggaga agtaagcaat ggaattcatt ccttgccctct attctctttc 300  
ttattttccc cttttactaa atatttcctt cttgcaattg taaagtcttc atgacaatga 360  
gaggctaaca ccctttnttt gggaacttgg cagcca 396

<210> 28040  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28040

tcgaggcctc gaggagggga ccgaaacggt gttaagcgta tgatggagct cgaaatgata 60  
ggctgggaag cccaggtggt gatcacacca gagaagcaat acttgccat gtacacaatg 120  
ctgaacacca caaagcacac cagcagcatg cccagcaaga aggcgatcag tgcggcgagg 180  
gtgttgatg gcgctgcggc cgatgatgac gacatctgt actccgatga agacacagtt 240  
cttcgtagtg ggttggttgc atggatgaga ggtgctttt tttatccgta gaaattgaac 300  
acagtaccag gagtttataa cgcagatgag tgggtgttga gaccatatac aaagcaggca 360  
aatgaagcta actaattggt aatagtaaag gttgatcnag tcctaattggc tcttcttttc 420  
tttttcttgg ttttctctct 440

<210> 28041  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 28041

agcttactag cttatcttct aatataaagc atataccaca aactgtgaac cttaccccaa 60  
ataacaaact aatataagcc tttaatataa agcatatacc accaaattgt gaaccttata 120  
cccaaataa caaactaagt aaagaatttg taaccaaaga ttactgaaac attaattaat 180  
ctccagttgt taacaaaaag aagtgagaaa atggacctgc aaaaatggaa acatatcccc 240  
aaactggatt atagacatta cctctacctt tgcaatcaca gcaccgagca gaactctctg 300

tttaaagcaa aagatctaca ttgcttagaa aataagtttg tgatctgcac aacaactata 360  
 tgcggaaaac aatcttgaat agtttgtaat atg 393

<210> 28042  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 28042

acctctcaca aaggagaaga caaagtaa atgtgtgtc tccaaactct taagaggatga 60  
 gtttgaatcc ttacatatga aagagtcgga gtccatttct gattatTTTT caagaattcc 120  
 cgtagtttca aatcaactag aaagaaatgg tgagaagtta aaagatgtaa gaattatgga 180  
 gaagatacta tgctcgtag atcccaaatt tgtgcacatt gttgtgacaa tcaaggaaac 240  
 caaagattta gaaactatga tgatagaaaa acttcaagga tcaactgcaag cttatgagga 300  
 gaagcataag aagaagcaaa agatcactga gaaaatcttc aagatgcaac taaaggagaa 360  
 cgaagatagt cgaggaaatg agagaagtca acgagggtgga ggtagcggct gaagataggt 420  
 acgacgtgga aacagtggac g 441

<210> 28043  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28043

cactgacaca ctaatcaatt ggcactaag gaacttga aa tggcgaaatg cntatacatt 60  
 ttatcttcac tatcacatga taaatatcat gatgactgga tgttgatttc gctactgtgc 120  
 ttatatgaca tatgaactat ggctgaaacc aatttaaggg cgtgatacat aacaatatat 180  
 tatcattatt ataggaagtc ctacatatata tatatcaaat aggcattgtac aaaagaatcg 240  
 gtatctggtg 250

<210> 28044  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 28044

cttacctaac aacacattgc ctatcctaag tgggtgctcta tgatgtagg tgagggtatc 60  
tctttgtatt tgagaacaat actaaatggg gagccggtag acgtaatcta ctactaactt 120  
tagtgtagaa tagtggtaca acacgtatat atattcccca atttatggct ctttggttag 180  
gattcgctac actatcttgt ttaatttaat ctttgatagg taaatgctct ccacat 236

<210> 28045  
<211> 319  
<212> DNA  
<213> Glycine max  
<400> 28045

ctcatgcttg tccccagct cgcccagacg agctatgtcg gttactacag acactaccga 60  
cttctggagg gatcctctga actgcccagtg tgggactggc tgctctttgc agtcctatta 120  
ttatcaatca caccgccttg ctgatttggg gtggaaatcc actaccagtg ccggttatgac 180  
aatgtaccaa tgcctaaacc catctgatgc actgacgaaa tgttactaaa ccttactgat 240  
tatgcaagcc tcccttatta tgtcttcag agcgttacac aacttgacag gtaccacact 300  
agcactaact tactattac 319

<210> 28046  
<211> 322  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28046

ctcagcttct tatccaagct catttgggga gaaactcctc tgcoctggctg annccncaaa 60  
ggatggcgcc tccctctcacc tcttttactt tgacttccac tgcctctcca tgggtggaaaa 120  
tcaccattac aggaccccat tgaagctcac agatccagcc tccatacaag cccacaagc 180  
aagtttccat cacaacacct attcatecat ctttatcatc tccaagatca tccacattgc 240  
tttcttccga tgatcaacgt ctatgggtata tctctcaatt ttcttctagg atcatcttac 300  
acgctaagta cctatatgta ga 322

<210> 28047  
<211> 376  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28047

ttctgctttt atggcgacna gangaaagca catgtttgtc atcatcaaaa agggggagaa 60  
cgtgaatgta tgtatacatg attttgatga tgtcaaagaa gaatttaaca acgctgctat 120  
caatgataag catttgcttc aagaatattt caagattgct tcaaccaaca cagccttggt 180  
tcaagattca ctaaagacca agccttgctt taaaacaaag tgctttcaag acatgcatag 240  
ctctggtaat cgattaccac gaagtgtaat ctattaccag aagacagggt tgagaaatat 300  
cagctgaaaa acgttatgaa tatgaatttc tacatgtaat cgattacaca tatgtctgtg 360  
atcgatcact agcatc 376

<210> 28048

<211> 386

<212> DNA

<213> Glycine max

<400> 28048

cttgtaagat gattgttacg attgttaacc atttaacagt tatacctgat aagattgtaa 60  
attaatagtt cagcagaata tagtggttctt atataagtta aatccccgag taatataact 120  
ggttgcatat taagtgaaaa acagtaagat ggaaactttg gaaccagct accccatgta 180  
tgctttatga ctcttaatgg gtatgaaaaa atacagcaaa aaaactggct cagttactca 240  
agtgaggtag gcttggtgac tagaaattac atatctcaaa tagccgtcac agcagttcaa 300  
ccttgatgta cgcaaggcaa agcatttctca gaatgtgaac ataccaacat taacatacat 360  
gatcaacaaa atcccttgac gaaaaa 386

<210> 28049

<211> 291

<212> DNA

<213> Glycine max

<400> 28049

tcaagcgtgt gccactttta tgagaaagca tcaactatga tgctatcagt tccaggcgct 60  
taccgaatca tgctagcctt gaaacatcgc catctcccca tgatgcttca tgcatacat 120  
gatacagata gagcttaccg aggetgatta tgaatagcca cccaccattc cctacttgct 180

gctgaccgat gcttaatcca ttgctgattt cacacgcaca tataaatgtc ctgatagcac 240  
 taccgtagc tcctctaata cgatttctat acttgatgcc tctgcgtcag g 291

<210> 28050  
 <211> 66  
 <212> DNA  
 <213> Glycine max

<400> 28050  
 gaatgaggct ggcccagggc ctttcggagc cctaaatgac aacgccgacc ttccagaact 60  
 ctgctt 66

<210> 28051  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 28051  
 ttaagctttt taatattatt ttcgggagct cgagcgaaac ccattcttac cccaagcttt 60  
 taataatatg gccgcgatct gtcattacgt gcgactatct ccactataga aagaaaaagg 120  
 agaagaacaa gcaaattccac acatactatt gtgataaata ctagaaatta tggcttttcta 180  
 catatacata tatacgtcat tacaacgata cttatcaact gtagcaaaga atgaaacttc 240  
 ttagaagtca taatatgaag aaatcaatat gtctagatac ccccttttct atggacaaaa 300  
 gagctaattg ataaaggaag catcgtactg atccattaac gcgcggttga accgatacga 360  
 taagaactgc ttacttatct catga 385

<210> 28052  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28052  
 ccgcgccctt gatttggtgt cgttaccant ncngtgacac tatagacaac tcacgcttga 60  
 ctgtttcctg tgattggctt ggagcgtggt cctgtgtagc ttaagcggag ggcaaagaac 120  
 gcctgcttct gggggggcca aagccatcga cgagatacca ctctggaaga gctagaattc 180

taaccttggtg ccaggacctg cgggcccagg gacagttctca tgtagacagt ttctatgggg 240  
 cgtaagcctc ccaaaaggta acggaggcgt gcaaagggtt cctcggggcca gacggagatt 300  
 ggccctcgag tgcaaaggca gaaggagct tgactgcaag acccaccctg cgagcatgga 360  
 cgaaagtcgg tcttaatgat ccgacggcgc cgagaggaat ggccgtcgct caacggataa 420  
 aagttactct agggataaca ggctgatctt cccaagagc tcacatcgac gggaagggtta 480  
 ggacactcga tgcgggtctt t 501

<210> 28053  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 28053

agcttgactc acccaaacat ggcaagttca acatgctttc aacaaatttc ttcacaaata 60  
 accatcatga agcagaaacc tagcaaaact acccatcata tctcccaaaa cccaataccc 120  
 acgaaaattt aggtgagaag aagtctaccc aaacctgaaa tttcgaggtc ccacacgtag 180  
 agatgcgctt catgactccg aaaatgcatt cctttcgcga tttcgagcag aaatgggtgac 240  
 caaaggttgg agctttgttg ggcaacaatg gtggatgaga gaaaagagga agaaggctgc 300  
 gtgagagaga gggagagagc ttctgaaatt tgggctgagt gagggagaaa gaaagtgtct 360  
 tttggttttt tacaaaaag 379

<210> 28054  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28054

ccgcttgctt gtgcgagctg caaccggggc ttgtgtgtct tttgtctata aataggcatc 60  
 ctaggggtgt tttaaagggt taggaggatc agaagtggag ggaattgaga gaattaagaa 120  
 agaaaaagaa gaagaaagaa gaggaacga aaccgaggcc ttaccaaatc gcaactatga 180  
 tegtccctac gtcgtttctc gttcgggtgt cttcgcacca atcggttagt tttattttta 240  
 gggattgaat gtgatctatg tacccttagg ggtccccctt gttattatgt gccattcat 300  
 cttctccatt tattatgtgt cattattttc tctattttct tccccctttt tgtcaccatt 360



ntaattacta attagcctta attgtcaaatt taattatgca ggcttatcat ttgggcctac 420  
atgactatat ttgtgtt 437

<210> 28055  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 28055

tctagtgttg ataagcagag ttgagataag catccttcaa tatgcggatg acacaatctt 60  
ttttggagag acattaaagg agaacattaa ggaaattaag gccatttctca aaatttttga 120  
acttgcacatc ggccttaaga ttaattttgc aaagagttgc tgtggagcaa ttggaatgcc 180  
agagagttgg aagtctgaag caaccagttg gctgaactgt agcttgttgt ccattccatt 240  
tgtctaccta ggaataccta ttggtgcaaa tccgaggagg ggccaaatgt gggatcctat 300  
tatagcaaag tgtgagagag cattatccaa gtgaaaacaa agacacctgt ctttcggggg 360  
gagagtaacc cttatccagt cagt 384

<210> 28056  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28056

ngagttgttg gatgtaagct tatgattgtg ttatatatct aacaatattt aaaacagaaa 60  
tcatctttca ttttttttgt caatgaaaaa gtatgttaac aaaataaaaa ttctcttatt 120  
cacttcatta ctacatgtag gttcaccact aaacaagatc cagggttaaa aatggaaaaa 180  
gaatgtgaga ataaatacaa agataccaaa aagtcaaact gagaaagaca ctataatcat 240  
gagaagagtc tcaaaagaaa taatgtctgg aagtcaagaa aacctaccgc ggatgatgct 300  
tgctaagtaa gctctccatt aacttatcag aataactac 339

<210> 28057  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 28057

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atggatcgct taaatttgga tgataaaaaa cttatattat catcatgttg gaaaactttt 120  
tcttttttgc ctaacttaga caattttgga ggcaaataaa taaatgcttt catatgtgtg 180  
ggtttttttt aatcagtttt catgttatgg tttgtgtgtg tgtgcacgca catcaaagat 240  
aatgaggttc aaatctaaga ttttgtgtag ggatgtttat tggttccagc aatatgatga 300  
attcaataat ccaaataaaa ccaattaaat tgattaaaaa aaaattccta tttggattgg 360  
acccaaatca aaccaattaa aattcgatgt t 391

<210> 28058

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28058

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tcctttcttg gttttgttgc ttttcattaa aatttggtc ctttgcctatg ttgctgttat 180  
ttttattatt taattctgaa gagtgggttc tgtcacaggg gtgttaattc gtgccacagg 240  
caaggaaatt ttttaacttg cgatagtgtg tgcggccttg atgttntttt ttctccctgc 300  
agcgtctggg ttacatgttt ttactgatat ctctcaagtc tgctatggtg gtttaatctg 360  
tatctgttgg aagatctgaa ttttgccttt tatgttagca tgtgattctc act 413

<210> 28059

<211> 391

<212> DNA

<213> Glycine max

<400> 28059

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cacaacaagt tttccacatc cacaatcgc gcataaaccc accatcccct gttgccacc 120  
tccaactgag ctcacgtact cccacgtagc ccatactctc gtttctctca acaccgggtc 180  
cccatcaatc ctcccaagct tccccaacat ccaagtaata caacattcaa acagcacaaa 240

ctatcacagc caagcaaaac agggcaaagg cagaaaaactc tgcccaaaac accaaccaaa 300  
atcacaactt ttctcactta aagaccccag taacattttcc ttcgttccaa ttcgттаacc 360  
gttggatcaa ctcgaaaatt ttactggaag t 391

<210> 28060  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28060

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tacctttgac acttaattaa aaattccact ttcagacact cataataaac ttgaatacaa 120  
atattaatat agcactgaat attagtaacg tagtctttat atatatatat atacacacac 180  
acacacacac acacacacac acacatttat gtcatttcaa cgaggaacac acacacacac 240  
acacactctt acaatcacga aaatcttcgt tcggatcgca cactcttacg atggatacaa 300  
cctttgttct ctcttgattc tgattgcaca ctctcttcac acaaggttgg tttctcaact 360  
ccattatcta aggtttcttt tttatttcac taatttgcaa tttgagcggt gctctcattt 420  
gcatgttacc tggatttgaa atntacataa agtgtgtaaa agcaaatgcc tttggtgttt 480  
tgagatgatc at 492

<210> 28061  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28061

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gaatttcacg tttacattac atgcacatcc cttcttcacg caaagttcat gatgataggt 180  
tagtgtgtct tgtacttcga cagcaaagtc acttctttcg tcatagcaag tctgcaacaa 240  
taaagtgcgc ctttggatga ggattatcat ctttcaaact atagacttca tttattcttc 300  
ataggacttt gaaaaatcct aaaaaaatat tttttgtatg aaagaatctt cagacacgga 360

gtaataaatg aatgtcttan atgcactact tg

392

<210> 28062

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28062

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gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga ctctcattca 120

tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaga 180

agctttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240

agcttatcta cacacacca tctaaaaact aagctcacct ccttgacaaa atacatgana 300

atacacaaaa aanaagtccc tacgacaaag actactcaga atgccctgaa atacaaagct 360

gaaaccctat actactagaa t 381

<210> 28063

<211> 397

<212> DNA

<213> Glycine max

<400> 28063

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gtggatggcg cctcctctca cctcttctcc tttgccttcc gctgcatctc catgggtggaa 120

aatcaccatt aaaggacctt attgaagctc aaagatccag cctccataga agccctagaa 180

gcaagcttcc atcaattcaa gctcttatga accataccct catccaacaa ctcttttact 240

tgaggaataa tctcaagccc aagaggtgtg gcagtgctaa caatgtcttt ttacaaagaa 300

gaagatgtag aggttttcta agaggggaag tttctttaat gtttatcttt attgcaaaat 360

gaatttcttt cttagctaac ctcttgagg agacact 397

<210> 28064

<211> 406

<212> DNA

<213> Glycine max

<400> 28064

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atgcagagat actttatggt tatctgcacc ttttgtcagc cagaggcaag cgagcccatt 180
gacacataga gacaatgtcg tcatctgcac ctttgtcatc cagagacggg gagtccgatg 240
acatgtggag ataccttatg gttatccaca ctttttgtca gccagatgca agcgagcccg 300
ttgacacgca gagactaaca tcgtcatctg cacctttgtc atccagagac ggcgagtctg 360
atgacatacg gagatacctt atgggttatcc gcaccttttg tcagct 406

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<210> 28065  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 28065

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ctgtcaaatt ttgtgcagca gaatttggt cttgtgcata aaatgtttgt gtattgctgg 180
ttgtggaaag ggtattacat attgggttct ggacatttct agtagatccc agcgggtcaaa 240
atgtagattt atgtactatg gatctccagt ataattttca agtcgatcca acgggttaacg 300
aatcggaacg aagaaaatgt tactgcggtg tgtaagtaga gaaagctgtc gtattggaat 360
gtgttatgcg cgaagctttc tgccatgccc ctg 393

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<210> 28066  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28066

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atttttcacc atggagatgc agcgaagac aaaggagaag aggtgagagg aggcgccatc 120
cattaaggaa taagccatgg aaaaaagagc ttcaccacca agatgggcct tggataagaa 180
gcttggaacg atggtccact ggaggaaaac aaagaggag agaaagagag agggggggagc 240

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acganattga acgaagaata cgggagagaa gttgaacttt gagttgtgtc tcacaagact 300  
ctcattcatc aaagttacca caagttgtac acatgcttct atttatagac tacgtagctt 360  
ccttgagaag ctntcttgag aaaacttcct tgagaagctt ctttgagaaa actttcttga 420  
gaagctagag cttagctaca cacaccc 447

<210> 28067  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 28067

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taccaagaag agttaggtct agccgcggcc cacgagcata ggattgcgga cgaatatgcc 120  
caagtatacg cggaaaaaga ggctagagga aggggtgatcg actctttaca ccaagaggca 180  
accatgtgga tggatcggtt tgctcttacc ttgaacggga gtcaagaact tccccgattg 240  
ttagccaagg ccaaggcgat ggcagacacc tactccgccc ccgaagagat tcatgggctt 300  
ctcggctatt gtcagcatat gatagactta atggcccaca taattagata tcgttaggaa 360  
acttgatatg tctctcagac cttgac 386

<210> 28068  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28068

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aggtaccact ctgtgggtcaa caataaaagc aggaagttcc acccttcaac acttctcat 120  
ctcaagcttg taagattatg gggtaacctat cacatgtggt actaggtggc ggtcaggcga 180  
tgggtccacaa caattttttc acatacacia agcgcgcata aaccacccat cccctattgc 240  
ccacctccat ctgagctcac gtactccac atagcctata tctctgtttc tctcaacacc 300  
gggtctcat caatgtctcc aagcttccac aacatccaag taatacaaca ttcatacagc 360  
acaagctatc aca 373

<210> 28069  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28069  
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 acagcagaat aattatgacc tctccagcaa cagatacaat cccggatgga agaatcacct 120  
 taatctcaga tgggtctagcc ctcaacaaca acaacagcag cctgctcctt ccttccaaaa 180  
 tgttgctggc ccaagcagac catacattcc tccaccaatc caacaacatc aacagcccca 240  
 gaaacagcaa aaagttgagg ctctctgca accttccctc aaagaacttg tgaggcaaat 300  
 gactatgcaa aacatgcagt ttcaacaaga gaccagagcc tccattcaga gcttaactaa 360  
 ccagaatggg aaaatggcta cacaattaa t 391

<210> 28070  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28070  
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 tacctggaga tatgtcgcgg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct 180  
 gtgacgtacc taaacaggcg agctcctggc agtcaaccaa taaaagaata aagtccacaa 240  
 agcaaggagg cttgtgtggc ggctggccag ctatgaatct tgagtgggtat ctggaaaatg 300  
 gcctctggta atcgattacc aaggggtgtg aatcgattac agggccttaga aatggagaca 360  
 ggaagttaaa atggcctctt ggtaatcgat ac 392

<210> 28071  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28071  
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taagaatata aattggatac aaataaatta cccttatgaa aggagagggtt atgggggatgg 120  
cagtaactag ggcaggggtg gtaacagaag cattagtggc agcgatggta ttggcagcat 180  
cagaaaagga agaataattg tgcgacagtt aactcctgat tgatagtttt ttttctacaa 240  
tgttattttt ttgtgtggga aagagaatgg gacatgtgat ttggttctgt ggagatgagg 300  
gaaaaaggga aaaagttgtg tatectatca taattcttcc taacctaaact cccttttctg 360  
tatacatnta acctaatacga cgac 384

<210> 28072  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28072

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gcaagaggga tttcgaaatc tgcccaattt gtgcagcaaa cagctgtcaa atcttgtgca 120  
gcagaatttg gctcttgtgc aaaaaatgtt tgtgtattgc tggctgagaa aagggtagta 180  
catattgtgt tctggacatt ttctaacaca tcaaacgggc aaaatgtaga cttatatact 240  
agggacctcc agtaaaattt tcaagtcgat ccaacgggta acgaatccga acaaaaagaa 300  
tgttactggg gtatttgagt aatgaaagct gtggtattgg aat 343

<210> 28073  
<211> 340  
<212> DNA  
<213> Glycine max  
<400> 28073

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gcacgacgtg ggactaaggc ataccataac accccagtcc ctatcactag ctgacgactg 120  
cccaaacttt ttgagctata tataagccat atctcctatc gatgtgggac taaaccacca 180  
cacgtgcggt tgcaattgag gcaaccgcca cagaggccac aactaagggtg ggctagggat 240  
gatagcaatg aacgctgatg tgcaacactc tcctcgtgc acagagatac cagcatggag 300  
agaggcacat gcaggaggcc caacaacaga tctaggataa 340



<210> 28074  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28074

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 cgaccgacaa actccggcgc taaatcatga aatacagacg ggagtagcat taggaaccaa 120  
 aatagcgacc gaggccatta cggcgcgaga acccaagaga ctaaggatat cggaagcgaa 180  
 tatattagac gagtgtctatt tagcgaccga actatccgac agca 224

<210> 28075  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 28075

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 ttgaataaaa acaaaactaa agtgagtatc aaaattcgtg atgaagcacg gctccacaat 120  
 ctagtattta tctgtctctaa agtgaaatca taggtgaaat tttgcttgca tccccatgat 180  
 ctcatatgca cagtgttgta tcatcttacc aagcaatagc caaaaaaata aagaataaca 240  
 gaatgaccaa cttccccgct attttccatc cattttttctc aaatcagtat tgaagcggag 300  
 gataaaaatc agaagagacc atgatgtgaa gtgatgcacc tgaagaatag accatgcgag 360  
 gttgaatagc gtaacgagc 379

<210> 28076  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 28076

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 tctttctaca gctaagtaaa ctataatctc caatactacc aaacttgatt ccaactccaa 180  
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gggctaagtc aggcctaaca gtttggtata atttcctaac ttcttcatgt ttaccttgag 300  
aatccatagt aagtaatgta gacgatttct gactttcagt attatgtcta actacaccag 360  
tattaagaca gtgtgtgccc tcattttcat ttgattcaaa aatagaactc gcaacactcc 420  
caggacagg gttctgt 437

<210> 28077  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28077

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aaagcttga caagttgttt gatcttgaga aactcagaat atcatggagc gtgtttgact 180  
caacgtacag tgctatacat gtcactctgc cttcagaatt gagaaaaggg catcctgaag 240  
ggtttcctgg acgaaatata ccagaatggt cgatgcctga catgatgagt ccgagtttgt 300  
gcgaactatc tataacaaga ggaagactca naggggtggat cttcaacact atgtctca 357

<210> 28078  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28078

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cttcaaattc accgtctcta ttcgagggac atctctctct ctctctctct ctctctctac 120  
agatattatt ttacaaatcc caacaatgag aatgtgagaa catgagttcc aaaggtagta 180  
ccaaattttc aggacgatcc aacggttaat gagttcaata tcatagtttt attaaaacaa 240  
gtttgggtgt atgcgagana aaagacagag ttttgggata ggaagaagag agaacanatt 300  
tgtgagaaag atagaacata gaaacgtatc gtanatatta aaattgacct aatatgtctc 360  
tatttatagc taaggtattc tgagtc 386

<210> 28079  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 28079

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 caatgaggac ttgaatgaaa taggagaaga tgatgatttc agtttcttcg taaagagatt 180  
 caataagttt ctaaggaaca aaggaaatca cagaagaaca aacttcaata taaagaaaag 240  
 aggagaagat tcactctttg atccagagag ctatgaatgt aatcaacctg gacatctgag 300  
 agttgatcgc cctagtttca agatcagaat ggaaaaatct gatatgaaaa cttttcaaga 360  
 taagaaagct aagagaagct tacatcactt ggg 393

<210> 28080  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28080

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 gaatttgggc tgcccatga tcgatacttt gcacctaagt gacgtgggaa atgcttttca 180  
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 taaatgaatg tatgatagca cgtaattccc ttttgaatgc aagtgtgtgc ataatgtaaa 300  
 tagcttgcca atatgaataa atgtgagtga tacaatataa tttgtatgat atata 355

<210> 28081  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28081

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gttatgccct ctccccctcg cagggatttc ttcttcggcg aaggagacat aattgttggc 180  
 ggtgatatta ttgacgagtc ctccaaagcc ctctacagag atatcttgag ccacatgagc 240  
 ttcggttaag aactttacta gcaaagcctg atgaggetca gagctcatga gtaattccaa 300  
 aaaagagacc atggccgng ttttgttgag ctgttcaatg accttgaact cgctctactg 360  
 aataatgcgg agaaactcgc ttgcttcctt ta 392

<210> 28082  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 28082

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 aacaaaaacc atggtaattt ttttttctct tcgttttctt tttcatttct ttctcttttc 180  
 accataacta ggtttagaag ggaaatcctc actataaagt cctgaatggc cagttcacia 240  
 ctttactcgg agtcatttct ttcttaccgc tcataattct ctaaattatt ttgctgtttc 300  
 aaaaggaaga atataccagc cattacttta ggctgtcacg tgaaaataaa aggataaagt 360  
 acagtcggta aattctttta caaataaagt tgctaattgt ctctgttcaa ataacaagat 420  
 cgatcataaa tgcattcatc attt 444

<210> 28083  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28083

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 gatggtcatt tctccgggag cgacgcgtcc agctcaggga cgacgagtat gcggatttcc 180  
 agaggagat aggtcgccgg cggtgggcat cactagttac ccccatggcc aagttagatc 240  
 cagaaatagt cctcgaatta tatgcaaagc cttggccaac agaggagggc gtgcgtgaca 300

tgaggtcttg ngtaaggggt cagtggatcc cgtttgatgc cgatgctatc ggccagctcc 360  
 tgggttatcc gttagtgtg gaag 384

<210> 28084  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28084

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 ttgatgctct gccagattct ccttcgcgct aagcatgctg aagctacgct tagcagtgga 180  
 tgcacgctta gcccactgc tgagctaagc ccaactgcta ctttttgcaa ttcaaaactt 240  
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 gagacagcgt taaccataaa attgtagaag taaagacttt gactntgggtg ttttgatgat 360  
 gtcatatgat catggcggtt tgatgcctta tggaaatgcg cttctcaagt ttaattcaag 420  
 acaacaatcc gagaatacaa gat 443

<210> 28085  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 28085

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 accaacatta accgataaaa tccacatgca acacctacgt ggagatgccc aaatgggttg 180  
 atacagatcg ataatatatt atgttatcgg ctttcttcgg gttgagcttt tgaagcccg 240  
 aaatgactga tgctcaaccc tagatgtgga gatgcccatc attttctagt catcactgac 300  
 tttgttaaaa ctcggaaga acattgtcag taaaaaaaa caattaatcc aagcattaaa 360  
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<210> 28086  
 <211> 447

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28086

tgctacatca actntatgtg aagaaacaca tccttcatat caatctccac ttgtgcataa 60  
cttcaaaata tcaagaaaca aatatgagaa gaagccaaaa aaaaaacacc catgattcca 120  
taactcatgt ttatggactt tttaagttgt ttaaagctaa agcaataagc tcaaagtttt 180  
tagaaatagt caatgactat gatttcattc ttgatgtttt tgggtgtctg tttgtcaccg 240  
caattttacc aagttgacat ctcttccttt tggtagtgtt gaggttcttc agcaatttgg 300  
gacaaagcgt atttcctacg aaactaaacc ctanaaagct ataatttctt tntgaaacaa 360  
ttcgtggcat aatgaatttg aaatatgtta ccctatcaca atcaaattcca ttgaaaacat 420  
tatggttatc ccaangtatg taataca 447

<210> 28087  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28087

agcttccttg atatgctaga gggaggctac tcacaccctt ccaatagcta agatcacctc 60  
atgtcaaaat acatgaaaat acaatgcgaa gcttccttga gaagcaagga aggtaacttc 120  
cttggaagc aaggaagaaa gcttccttga gaagctagag gggggctact cacacccttc 180  
caatagctaa gtcaccccc atgcaaaaat acatgaaaat acaagaaagt ccctactata 240  
aagactactc aaaatgccct anaatacaag gctaaaaccc taaactacta gggatatctt 300  
aacttgtagc cttaatttgt agggatatcct acaaacctaa aatgggtcaaa atataaggcc 360  
caaaagaagg aaaacctatt ctactattgg tcctt 395

<210> 28088  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28088

tctaactnta tacaggaatg aagctctgat accacttatt ggtttagtga cctcagatat 60  
 cttaagaagg ggggattgaa ttaagatata acaaactatt cccaattaa aaattctact 120  
 tttaacttaa cccaacaatc caagattcct tttaaacaag aactcctaga taataatgca 180  
 aattaatctt actaaataaa aaataataag caataaacag taaaggagtt taagggaaga 240  
 gaaaatgcaa actcagattt atactggttc ggccacaccc ttgtgcctac gtccagtccc 300  
 caagcaaccc gcttgagagt tccactatct tgcaaaatcc atttacaaga tctgaaccac 360  
 acaaggacaa cctttctttt gtttcagatt tctttcaaca agaggccctc ggtctcttaa 420  
 tccct 425

<210> 28089  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 28089  
 agctttttaa ctttgtacaa taataaagct actgaataga agtggcctca gaaatcttaa 60  
 agctctgata ccacttggtg gacaagtggc ctcagaaatc ttaagaaaga gggggttgaa 120  
 ttaagatttt acaaactatt cctgaattaa aatttctata tagattttga cccaagtcct 180  
 aagattcctt ttaaaatgaa tttctaaata ataattcaaa ttaaacttac tgaatagaaa 240  
 taataagcaa caataaataa aagagtttga gggaagagag aatgcaaaca cagttttata 300  
 ctggtttggc aaagtccatt gcttacgtcc agtcccca 338

<210> 28090  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28090  
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 tcagagagac catacaagtt tcctagcgat ttctaattat gtgggccatt aagtctatca 120  
 tatgctgacg atagccgaga agcccatgaa tttcttcggg gccggagtag gtgtccgcca 180  
 tcgccttggc cttggctaac aatcggggaa gttcttgact cccgttcaag gtaagagcaa 240  
 accgatecat ccacatgggt gcctcttggg gttaaagagtc gatcaccctt cctctagcct 300

ctttttccgc gtataacttg gcataactcgt ccgcgaccc atgctcgtgg gccgtggcta 360  
gacctaactc ttcttggtac ttggcgatga tagctagcat gttggtctcc gtctcgcat 419

<210> 28091  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 28091  
tcaagctttt tcttgatttt tctaagttct ttaacaagct tagaacaata tacttgtcct 60  
tcatttaact gtctttgggc ttgtcggcca cgattaacaa agtactttcg acacctactg 120  
tatgttgatt taaccaacgt tgttatgggt atgttgcgac aattcttcaa aaccttattg 180  
atacattctg agagatttgt tgtcatgtgg ccatatcgac gtccttctct atcataagtc 240  
atcgccatt tttcctttga aatacgatta atccatgttg ctatagctgg actcaattga 300  
cgaaattttt ctaaattttg atcaaaaatg tgcttacacg gagtgtagcc tacataaaat 360  
ttgtttggaa caacaattgt aagtatat 388

<210> 28092  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28092  
ntaggaatga cttggattat atccttggtg ttctgcattt ggtataatcc atgcttcaat 60  
ttagccaaac caatcatctt caaggacttc atttcctata tttggcaatg agaattggaa 120  
aaagtgagag agtatttttag tgaagacaaa agcttggaga ttgaaataag attgaatttg 180  
aagtttggaa cataaagaac atcatgtata atgaaatgtg gcgataactg cacatttcct 240  
gaaatatgag caaaaacaat ggaaccattg ggtaagtgga tacgcacagg ttgtattttg 300  
gaaaagctta caaaattatc aaaggaacat gtaatgtggt ctgtggcccc agagtcaata 360  
atocaggggg tgcaattaga aaaacaatgt gcagtgtgtg cattagacaa 410

<210> 28093  
<211> 107  
<212> DNA  
<213> Glycine max



<400> 28093

cggcctaacc ttatgatacc ttgactatct cttttacatt cctgttatgg atctctaact 60  
acgctatggt ttgactaaca taaagggatg ggcagatgta acatgat 107

<210> 28094

<211> 385

<212> DNA

<213> Glycine max

<400> 28094

gtgttctaca acattagctg taagcatatg ttgttgtttc caaacgggtg gccatatccc 60  
tttctggagc ttaataacaa gtgggctcct atatggtggg tgacacacaa tataaaattg 120  
ctcaagtctt gccttattcg aattgccttt tacttattaa actacatata atgcaggtat 180  
ttgtgcttgg cagtaattca tgccccttgc tatggcgtgt attatcttat agtgcgagac 240  
aaaaatacga ttctccccag attgttccct caagcatttt tgtcacagga agttccagag 300  
tatgaaggaa tcctcagact atgaagcatg ttgagaaaag gaaaatgtcg gtggaattat 360  
acccaaggtg gtggagacaa tattc 385

<210> 28095

<211> 386

<212> DNA

<213> Glycine max

<400> 28095

agctttgaga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60  
gcacgaaatt gaaggaagaa aaaggagag agttgaact ttgagttgtg tctcacaga 120  
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180  
ttccttgaga agttttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttagcta cgcacaccca tctaaaaact aagctcacct tcttgagaag 300  
ctagagctta gctacacaca cccattttta aactaagctc acctccttga caaaatacat 360  
gaaaatacaa aaaaaagtcc ctacta 386

<210> 28096

<211> 357

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28096

tggcatccaa aaccattgtg gaagcaatat gttgagcttc agccattttg gttttctgta 60  
gaaggtctct tatgtattta ctttgagtta gaagaataga gccatcaatt agagtcttga 120  
cttcaaatacc caaaaaatag tccagcttcc caagttgttt aagtgaataa ttagaatgaa 180  
gtttgataat aaattgttgg actaagttga tagaactacc agtgattata atatcatcaa 240  
catacaccaa aagataaatg atatgagagg tatctttgaa aacaaagaga gatgggtcac 300  
acttgcttgc agaanaacca agatgcaaga gagtagattn tagcctgtca aaccact 357

<210> 28097  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 28097

agcttgctaa ccaaaaagat ctaatttcat gcaagatcaa gatattatgg aaaacaaaga 60  
ttttttctcc agcatttggga agattaaggc ccttccttct gtgctaatta tgatttggag 120  
ggaagctcac aatagattac ctacaagatc taatctttgt aagagagata tcaatgtgct 180  
aggtaatttc ttgtgcttgt tgtgtggata tgtggaagag tctgttgatc acttgtttgt 240  
tacatgctat gtgtcgataa gaatatggaa attttgctac aattgggttg gtattcaatc 300  
agtaatggca aattccttgg agtcattata cttgcagctt ggttattctg tctatggcaa 360  
ggagggatca taagcctagc 380

<210> 28098  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28098

tcatccgcag attcttcttg taagactagg tttagactat acaacattat tgtaacaaca 60  
taattaaaac caaaacttaa tccacagatc cctcttgtaa gactaagctt caatcctgct 120  
tcaatcaaat tctaaggcaa caatacattt cccaatgcta tagtcaccta actatgcata 180

caaatggatg atcagaccaa aagcatacaa acattaagca ttgaaggaat cattgaacac 240  
 aaaaaacata atcaaataga tattaagtat ttacatcagc tgttcattag aaatcctcaa 300  
 ccaggggtgtt tagccaggca ttacaaagaa accctaacaa taaatgagat taacagcaga 360  
 gaattatagt tcgttacaca agaaggattc ctctcctct tctcagcatc tcacactcac 420  
 tctncaacga actaatc 437

<210> 28099  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 28099

agcttggtat taaaatatta aactaaaata tgaaaaacta aaaatgcatt tcttttatgt 60  
 ggtgcggtgt atttttagtct ttttcaatct agccggcaaa aactaattgc ataataattt 120  
 aaacaataat aaaatattaa agataaaaata tgaaaaaaaa tattgattct ataatttaga 180  
 aataaagtta acacataaaa actaattgta taacaattca aattaatata tatatatata 240  
 tatatatata tatatatata taatattaac tcttagatca tttttttgtt agagatccaa 300  
 tcaagtgaga ttaactctga aggaataaag atcaccacat aaagtttgca tctctcaata 360  
 cattatcag 369

<210> 28100  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 28100

tagcgtgaaa gaggcatact gagacttatt tctctattga atacatcata agcctgagta 60  
 tctcattgtt gggagcctga cagaccaacc tcttgtaata taactcttcc ttactatcta 120  
 tttaatgcaa tcttggtttt tattggtctt ttatgtgatt tgttggttgc gattgttgtc 180  
 tggcaactca tactcatgca ttgttttagaa aataatacat tgaaatatgg ttatttttcta 240  
 aagaattggg aaaggacatc aatatgaaat cattgctagg aataaactga tgtttgttta 300  
 gcctatttca tgcactctta ttcttaactc aatttactat tttatcttta ctaaggaatt 360  
 cgggaaagaa aatagataaa ttatgcttat catgcggcga acccaagata gagtatcata 420

gt

422

<210> 28101  
<211> 175  
<212> DNA  
<213> Glycine max

<400> 28101

catgatacaa taaaggcttt caggacagat acaatttatg cttcgccaag gggagatgga 60  
ccactttcaa gggctggatt gaatcactga caatgcttac taagtctagc tgccccgtga 120  
gtatgatgtg aatatcacct tcaacgtctc tgacttatct ctttttgatg cagat 175

<210> 28102  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 28102

tcttgaatac tcgctaagtg actgtttctt tttcagttat atatatcgta ttgcgaggac 60  
cgctaagcga ctgctatttt gctaagcggc ctttatcttt ctgttgactt gattcttgta 120  
aatgttcaca ttcttttctt atagatggcc tcaagaaaga gagcatgagc tgaagacatc 180  
ccttcatcat ccaaccacc ttcttcgata gcgaccatgg aaccagatgc ccaacaagca 240  
ccaccataa ttcctatgtt gcacagctta ttcatgaggc agctgggtgat tgtatacaac 300  
caggagtatt tagctcacag tatgctaata atatccatgg aacaatgtct ggac 354

<210> 28103  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 28103

agcttgggag gattgatggg gaccgggtgt tgagagaaac gaggatatgg gctacgtggg 60  
agtacgtgag ctcagttgga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120  
gatgtggaaa aaaaaaacta tttgtgcacc atcgcccgac cgtcacctag taccacatgt 180  
gatggatacc ccataatcct acaagcttga gatgaggaag tggtgaaggg tgaaacttcc 240  
tgcttttatt gttgaccaca gagtgggtacc tggagatatg tcgcgggggt caggagacct 300

tggggacgtt aggtggggtg ctatttgcca taaccaatct tgacctatcc cgacccaacc 360  
 cgggcatagt cgggtca 376

<210> 28104  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 28104

actcagcttc tatagaaggt cgtcctatct tctactttgc ttacctctca atgagctggt 60  
 gaagaagaat gtggcattta cctgagggtga aaaacaagag caagcctttg ctttgctcaa 120  
 agaaaagctt actaaggcac ctgttctagc tcttcctgac ttttctaaaa cttttgagct 180  
 aaaatgtgat gcctctggag tgggagttgg agctgtattg ttacaacgtg ggcaccctat 240  
 tgcttatctt agtgaaaaac ttcatagtgc caccctcaac taccctcacct atgataaaga 300  
 gctttatgcc ttaataagag cctccaaac ttgtgaacat taccttggtt ccaaggaatt 360  
 tgtcattcat agtgatcatc agtcactt 388

<210> 28105  
 <211> 149  
 <212> DNA  
 <213> Glycine max

<400> 28105

tgatgatctg agacctcata atggctggct catgaatgat ataacattat atatgttata 60  
 atgttgctga ccaatgacct aatgggtggac taggatccta acatgtgaga atagttattc 120  
 aagtcttgga aatataaaac taataacta 149

<210> 28106  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 28106

ctaagctggg ttataagtga attctcacat atggcatat catttatcta tatttaatga 60  
 tctgggacca cattttggct gcaacatcaa tgaaaaaacc ttaaataatgt tttaagggtac 120  
 ctgataaatg accgaatttt gttcttgggt cctaataaaa aaaatttggt aatttaagtc 180

tccgatatat taaaactttt aactttcggt ttgagtggat gtcacgcgtt aagtgaagac 240  
 actgttgata atattataat gtgacatgtc ttcactaaac tggcttaatg gactccgtac 300  
 aaaatgttca atacattgaa gattcaatat aacaaaat 338

<210> 28107  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 28107

gactaaatct aagtctaaac tgtagaccat gaattctttg ttatcttcta gcactactct 60  
 acgcctgcaa ccgtgggggt taacgcactg tatggaattt gctgccacta aagattaaaa 120  
 acaatagtgg tggcataaga gaatcaagca ttaacttcta agtccgtgat catacagttt 180  
 cttatattgt ctgacatctt tgtcttacag atcttagtat attatctttt ggaatgaata 240  
 tattgagttc tgttttgact gtacacagca ttgacttgtc taccacacct gtggaattta 300  
 ctttgataaa ctccaatttg aatatcaaga tcccatatac tgtcagattc tcggtgacta 360  
 cccacattg 369

<210> 28108  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 28108

acagatgata aatagacaaa taaatatact ctcacaaaca ctttatcacg tgtttacact 60  
 gtcataccct aatttcgtcc ggggacctat gcttgatgac atgcgacttt tctttggacc 120  
 tagcgaggag cttggcaccc atcattatgc aatttgtgaa attccaggac atgccggaaa 180  
 accaaaaaaaa tattgatgca caatccgtac gtttccgtga cacaccggaa ttcaaattgga 240  
 ggcatcatta cataattaag tgaggatccg taacattccg taagtcaaaa aggggatgat 300  
 catagtatcc gaactgtccc caacattaca gaa 333

<210> 28109  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 28109

ctttgagctg aagcgcagtc cttgcctgga gagtttaacc cttggatcac cttaccctta 60  
aagaggtatg gaggtgagaa gatgtcccggt gcattatcta ggaatccatg tgggagggag 120  
cttcaccacc aagatgagcc ttggataaga agcttagaga ggatgcttct ttggatgaac 180  
agaagaacgg agagaaagat agagggggga gcacgaaatt gaaggaagaa accgggagag 240  
aagtccaact ttgagttgtg tctcacaaca ctctca 276

<210> 28110

<211> 213

<212> DNA

<213> Glycine max

<400> 28110

ttaatgcctt tacccttttg aacgaaaata accttatagg ctgattgttg atgaaagcgt 60  
ggcatacatt agtaaccccc aactggcaac gtgtcactca ccatttggtc ttcacaaaag 120  
ctgatgccta agctgacgat tgagcgctta ttacaacttg aactaacctt agctatagcc 180  
cttttaatat atgaacccat cacatctttt tgg 213

<210> 28111

<211> 640

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28111

cccactatct ctactcacac ttctccacaa tatgatactc tgagtgtaaa acggacgaca 60  
agaaccacta nnaanannan aagaaaccgg ggtntttttg aactgtagc nacnacgaga 120  
cacnananaa aactcaagcg gggagccaan ncaaacgaca agaacgggaa acccgatatgt 180  
ctgancgaga ccggccatat atcgagacgc tcgaaatcga atgtggaaac tctgaaccaa 240  
ctaaacgaac ataaactttg tactcgggac gtaaagatat gagcgccccg tacaataat 300  
cggaggacgc ctngaatat cngagacagt tggaatgcct ctgcgatgcc atagttcaaa 360  
tacgatcaaa tacacatcgt ataacatcga ggatggacta gatatcgaag ggcccctcgt 420  
tactataatc tgacgaccgc ttcgcaagat tcgacatgct ggaaagcctc ttgagaccaa 480

tatcataacg acaaataact ctttctacct caaatgtcaa gatgtgaccg ccccgtaaca 540  
catcagacac cgctccgaca atgaaatgat tgaagctccc gagcaaagta caaacaacaa 600  
taacatccca actcaggaac ctgactcaga cctgggtaccg 640

<210> 28112  
<211> 557  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28112

cggaccggnn nnctggggcc ttgattacg ntctgactct ctctgtggac gatatacgag 60  
tctctgcgac ctctgtggac tactctctta tagtgccggac tctgganang acatagtcta 120  
agcatttctt gtctatgtca ttacatacga tatctctcgt gatgcggata tagcatatga 180  
gcacaactat ttgctcacca cttaaaagtg agaaactcta ggaggatatg ctgccagata 240  
cagcgtgtat gacagctatc tggtagcata atgagattca tgacctatac ataaaatcat 300  
ctagcagaat atggataata tgactgtgat acgttactca actaattttc acgaatggac 360  
cattgctact atgaggggtca aagcctatca aggtgcattc atggagccct tgtgggtcaaa 420  
tttcagggca tctttggata ccaatcttaa gagggccttt ggtaacaca ttggctatat 480  
gtagtggagt ccttgggtggg agacctcgct gctgattcga aggacgaact cctagcgcgt 540  
gtttccgctg atttctg 557

<210> 28113  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 28113

ctcaagcttg aggcatctat atcattgtta ggaaaaaata aactatcttt ttttatacaa 60  
ctttatttttg atcgaagagt gtgagaaact attgacacca tataaggaaa atctgggtggg 120  
atgcaataaa tattcgctat tacgctactg gtacataatg gtttcttacc tatatttttt 180  
catctgcata tatttctttc tgccttctaa cgttaccaa atagtaaact gattggggcca 240  
ttgcaactat tcgtttcaga agctagcaca atgcaatagc tcatcaattt tctacaatta 300  
agaaggcatc aataaattag caaaaagaga ggacaatttg ttatcacatt ctctttcttt 360



ccgtgagtat tttgttgga accgcagtac ggatgcacat gacaatttcc agc 413

<210> 28114  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 28114

tgcatgcatg ctagcttgta tgcattgatt gtaaggcctt tgccatgagc agactttggg 60  
tgtgaagtaa gttctccatt gtgtacaat aggaggaaaa ggacaatgat ccttttaaaa 120  
aaagcttcat tgtcatatat aaatacaaaa gacgaaatta gtggaaaaaa ataaatatta 180  
tctaataaag gtaaattgta ttttagtaga tattatgtac ctgcacaaag tgatttccat 240  
cgacaagtct aaaggaaatg agacgaggtt gtgctggcac gggacatgct atgttgcacc 300  
aatcatgatt ccatttgttg aaatttcata acagaatcat gattccattt gaccacgaaa 360  
atgaaaaaaaa aaatggcagt gtaagtg 387

<210> 28115  
<211> 243  
<212> DNA  
<213> Glycine max

<400> 28115

tacacaagtc tgctattacc tatgcaagaa tccatgtgct cgtggaacgt acaaagatat 60  
ggagactata taccaccaat tatgagatca aggggattat ggacgaccga tgtagatat 120  
tggcacatgt gctaactatc atgccatcgt catgacaaga tgtctgaaga tcgagagggg 180  
tgcatatccg ctgaggagaa tggcactgag cagctctaac gcctttaact tggaggagag 240  
tgt 243

<210> 28116  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28116

ttatgtcaaa ttgctttggg ggtatcaagt tcaataatga tctttatagg agtactagca 60

cggtatctgt gcatttgac agattattac ataattntgt atattattta attattaatt 120  
tatttaaattg tttttcttat aaagatttga taattttata cccacgataa taattagtaa 180  
gtgaattttt tcaaccaata ttagtaattg atataagttt tagctcttat aacatagtca 240  
ttttaagttg tcataaaatc aaataagtta caatcacact tagaagaata acattgtgcg 300  
ttcctaatacc ctttaaacag ggatgacaat aagaatccaa catgcatata cacgttaaatt 360  
ccattccaaa ctttaacggg aaaaataacc tactntaata agggacgggt cggatacttg 420  
at 422

<210> 28117  
<211> 300  
<212> DNA  
<213> Glycine max

<400> 28117

tggggtttat tgcacttcct gtcctaagt atgagagatc gtcacatctg taaacactgt 60  
tattgaacct tgcctcatat aacacctatc ataactctgt tgagtggcag ccctacagag 120  
actggctcta ttaacgtttag ctgcccgtga tgctgggtacc cccttactct gtaatatatg 180  
cggatgagga ttcaccagat ggatgcagga atcgcttctt tacctgttag tgtaaactgt 240  
cattgctggg accactcogg cacccaatgg gatcctgac ctgaggatca ctcccatgtt 300

<210> 28118  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28118

tgtagaagca aaaagccagt tatggtntc aaggtggatt tttatattgt tctacgactc 60  
agtctcatgg ggtttcttgg actacatgct gcaaagaatg agattctgtc ccaaattggag 120  
aactggatt tcaacctgcc tcaattcagc aaccatctcc attcttggtta atggcagccc 180  
taciaaggag tttgctcta ctagaggctt gaggcaaggg gatccttttag ccccttact 240  
tttcaatata gttggagaag gcatcacagg attgatgagg gaagcagttc agaaaaactt 300  
atacaaaagt tacatggttg ggaagacaaa ggaaccatt aatattttac aatatgcaga 360  
tgacacagtc tttgtgggtg aagctgttg ggagaatgtc ttagtttgat agctatgctc 420

<210> 28119  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 28119

acggtatgtg gatacctcca cctctggaat accattgagg agcgccgcct tcataaccat 60  
 atgaagccac tcagaaacga tgtgagctat gagagcctat agtactcctt gagtgtcata 120  
 cttacaggtc gaggaatacg tcgctatgcy atcgatccct gctgttagag cgggacctat 180  
 agcagcgaag tcttgcccta tgtctgataa tgaagactgc tgagactgag tgtgacctgc 240  
 agaaccatat acatccgacg gcttttacac catcatgcaa atctacgaga tcgcgagctt 300  
 gatc 304

<210> 28120  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28120

tagaacaata tacttgtcct tcattttaatt gtctttgggt ctttacgacc acgatcaaca 60  
 nagtactttc gacacctact gtatgttgat ttcaccaacg ctgttatcgg tatgttgcca 120  
 caatccttca aaaccttatt tatacattca gagagggttg ttgtcatgtg accatattga 180  
 cgtccttctc tatcataagc catggtctat ttttcctttg aaatgcgatc aatccatgtt 240  
 gctatcgctg gactcagttg gcgaaatfff tctaaatfff gataaaaaaa atatgcttgc 300  
 aaggagtgta gcctgcatga aattagttag caacaacaat ttttaagtata tgtcaaaactt 360  
 aaattaaggt gagcatgatc aacgaaatgt tacccaatnt cttcacattt ctt 413

<210> 28121  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 28121

tggtagcaga agacatgccg gagaggacga gacactttgg agacgtatct tgtaatgcta 60

cagtcactaa ctaagcctga acagtcctgt gagcttaacc ttcactagag tgtaagtgat 120  
 aaactgagat gaacctcttg attcaatcac cagtttctct tcccatttgg tgtacacaaa 180  
 ccaccaaact gcgtatgaag acacggcttg acacatgcgc tcctaataatgat acatgagaag 240  
 ggtagcctat ggcatacgtt tactag 266

<210> 28122  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 28122

tgaaacttct gctttttttt tgtttacata gtggtacctg gagatatgtc gcgggggtca 60  
 ggagaccttg gggacgtcag gcgggggtgct atagcccata acacaagctc gaccaattcc 120  
 taccatccc gggcatagac tgtcagttag aacctgtgat gtacctaagc aggcgagctc 180  
 ctggcattca acatataaaa ggatcaaaga ccacacagca aggaggctcg tgggtggctgc 240  
 gcagctgtga atattgtgaa atatgtggat tgtggcctct gacaatccat tacaatgctt 300  
 ataactgacg acaggaggct cacatggctct ctggttatcc attaccaagg ggt 353

<210> 28123  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28123

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 aagagtgttg gagctgagaa gatgctccgt ccattatctg ataatccatg tgggagggag 120  
 cttcaccacc aagatgagcc ttggataaga agcttagaga ggatgcttca atggaggaaa 180  
 agaaaaaggg agagaaagag agagggggga gcacgatatt gaaggaagac aaaggagag 240  
 aagtagaact ttgagttgtg tctcacaaga ctctcattca tcanagttac aagtgttaca 300  
 catgcttcta tttatagact angtagcttc cttgagaagc tttcttga 348

<210> 28124  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<400> 28124

tctagccaaa tggacttagc ttgaattaat tcctttgttt tccctttgag cctattttcc 60  
cctttctttg ttttgaagct cattacaagc cttaagttaa aaaccatgat atcaccttac 120  
ccttaaggaa ttttggagct ttggaattgt tttgggaata agctgggaat aagtgtgggg 180  
gggggggggac gatct 195

<210> 28125

<211> 312

<212> DNA

<213> Glycine max

<400> 28125

ggatacttcc tattggaggg cgaccttctg tcaactgatat gtgcttctgt actctccgcg 60  
tgcatgtaca tggcggaat tcatacctta gaggacacta cattgacgcg tcacatgatc 120  
cagcgctact ataactctct ctaggtgcct tccgacaggt ggctatcaga gcgtaggagc 180  
ttccagtcag agctcgatac acctgaatta acttaatttg ctggaccttc tgtgacatag 240  
ctattgctac atgtctctcc gagtgtctac tggcatgtca tgaggctctg cctgtctacc 300  
tgatcact ga 312

<210> 28126

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28126

tatctattgc tattcagaac taagtgtttg gagtggctaa tcaagaaaat tgtgatccaa 60  
gcatgaaagg cagacaagtg ttgatccttt ctattcttgt caaaaattct gtcttgatat 120  
ggtttcttat cttctgtgta ggtagataac ttcattctta gcttaagttc atagtttgac 180  
tgctcatagt ctttgaaact tttctctctt ttaggcgcct tcagattgat gtcttttagtt 240  
tggaaggctct ctccaaacaa agtttgatcc caaggaagaa caaaattgag ggaacaaagg 300  
tgactcatca attgtttatc gtctaaaaga gtgtagaaag gcataacaaa aggctctgcc 360  
tctctagctn tccagactgt ggcaccaaga ggatatacca tcttcttggg acttgtgctt 420

<210> 28127  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28127

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gccctcccn ttgacctga tacttcgcta ctcngacca tatcagctct gacctcgtga 60
acctcttatg cgacactgag acatgcttgc tttttgtcat cgactacacc cataatgatg 120
agagactagc ccagcccaca gcatatggct ctacagtatc cacgtgatat caccgaatac 180
tatgcctttc tatgggtgat ccacacttga cccaagaag tatccacgag gatggagcgg 240
agtgatccta cctcgttcgg catgaaagag cttcaccact tgttgaccaa tgtcttagtg 300
aaggcgagac gcctacttcg cccgctacta tattgacaga cttgacttac attgtcaaca 360
taagagagaa ctagcggccc tcatagttat atctatatat gaacctcgtg tggctcttga 420
taccacgact acacgagact ctattagtgc tctgaatgaa cttgactcat gtgcg 475

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<210> 28128  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 28128

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tgtctcagtg tttatgcgag acggagacca acatgcttgt tcatcatcgc caagtaccaa 60
gaagagttag gtctagccac ggcccacgag catatggtcg cggacgagta tgctcaagta 120
tacgcaaaaa aagaggctag aggaaggggtg atcgactctt tacaccaaga ggcaaccatg 180
tggatggatc ggtttgctct taccttgaac gggagtcaag aacttcccca cttgttatcc 240
aaggccaagg tgatggcgga cacctactcc gccccgaag agattcacgg gcttctcggc 300
tattgtcagc atatgataga cttaatggcc cacataatta gaaatcgta ggaaacttgt 360
atggtctctc agaccttgac tagatacgac tctctttttg aaataaatga gctgggtccca 420
tg 422

```

<210> 28129  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 28129

ntaaaagaat ggctaagatt ttgttaaaac ataagctctt atacaatgaa ggaaagctgg 60  
agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg cacaatgcac 120  
aacgcatgat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtcggataca 180  
atgtccagga catcctgccc gaaaatactg gagttgctga aagcattgaa gctgcatgat 240  
ccacgatgtc ggacacgatg tcttgacatc cggcccgaaa atactggaca tataaatctg 300  
ttatatcttt aacagattat tgtgcagtta gcaagagatg agatgatcta tctttaggaa 360  
cgaattanaa gataattaaa gctcgtatta caaactacaa gagtcgttca gggatgaaag 420  
at 422

<210> 28130  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28130

nttgaccctg acaccttcgc tactctgngg cctatcgagc tctgagctcg ggatcctctg 60  
atgcagctgc agcatgtttg ctttctttct acagcggtat gaattgccgc aaagggtcatg 120  
gtgatcttga ctggatatat ggcacgtatg cgtgtacatg catatgcgtg actagacact 180  
ttgatgcttg catattcgca tttatgcgcc atgagagcct tgtcatcatt ggtgccttag 240  
gaagttggag cgcgtgcctt tgtttggtgg aaatactacg tagtggtacg ggggaaacat 300  
tgctagcgac tgtttgctgg agcgggtgga ctatgccttg tctggcacia ggattcctac 360  
tgggagacga tctgaagcta ttgtatccac gggccacgtg catgatgaat actgaagaca 420  
attgctagcc tatatgtgca tatgaacgtg ccacgtcaag gactgcacag ccagagccgg 480

<210> 28131  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 28131

ctagagcgat atgatctgac gtaaagggtg atggagacta tgaatgggaa taaggacttt 60

ggacctgaca cgcataatgca tgactacgca ctcaatgtga ttcgcgacat actccgcaga 120  
tctgcacgat aacagcctta gcatggaccg tgcctaagcg ggggtggagag cttgcctttg 180  
attgattgag atccaacaga gtgtattgaa tgagaccttg tgagcgatgt ctacactata 240  
cgctgggaca gtgcctgttc tgccccaagc ctta 274

<210> 28132  
<211> 261  
<212> DNA  
<213> Glycine max

<400> 28132

cacgataggt gtcctataga gccctcata cctatgtctt ggactggacc atactttaca 60  
cccaccacgg ggtgacgtcc caaagctata taactggccc tagcgacatg gactacttat 120  
acatgacttt tttagacagt gatggacctg tacgtgagaa cttctatatt agtacgcaaa 180  
ctctataaca ctctgccttt aaggctggta cacactcact gaattcctaa gaattaacct 240  
cataccactg tcacagtctt t 261

<210> 28133  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28133

taagaattgt ctactcagt tcaatgcaca cacgaaaatc actcaatgat atgtatttca 60  
agataaacca agtacataac aactcaagtg gaccatacat cacacaaaca acaaggtgag 120  
gcccaaaact tatctaactg gttcaagctc aagggaactc tcatacgtga ctttttttgc 180  
tagtgtttta cctctatgga aaagtcttat attgaagtgg taagttcaaa acaaaaagtt 240  
tcaaaaagtg ttttacacaa aatgaattcc taaaaattaa caacaaacca atgtagagta 300  
aaaaatagaa aatcacataa aggtcataaa aaaatatcat caagttgtga gtgaagtgc 360  
aggtcacgaa tgcccactgt attacaacaa cccanatgca atgtctagtg catacataca 420  
ac 422

<210> 28134



<211> 311  
 <212> DNA  
 <213> Glycine max

<400> 28134

ttctcaccta cttgatatga taagcaagaa catatctcca caccaccctc tcgtacgcta 60  
 gctcatccgc gtgcttttac ttatgagaac tctttgaata tctactact tagacgtact 120  
 ccaacgcggg aacagactga gctaacggcc tgtactactt gtatgaccaa tataacgggt 180  
 cttacaagat cgaatgacta gtgtaattt aacatatact tggggaccgc gacttggcgc 240  
 atgggctcag agactaccct gatgttcatg acagtccctag ggcgcttttg agcagatctt 300  
 acctactcct t 311

<210> 28135  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28135

tccttgagaa tcttctttga gaagcttcct tgagaaacta gagcttagct acacatacac 60  
 ctctaatagc taagctcacc tccttgagat gagaagctag agcttagcta cacacacccc 120  
 tctaatagcc aagctcacc ccattgcaaaa atatatgaaa atacaaaaaa ttccctacta 180  
 caaagactac tcaaaatgcc ctaaaataca aggctaaaac cctatactac tagaatgacc 240  
 aaaatacaag gctcaaaaga aggaaaacct attctaatat ttacaaagac aagtggaccc 300  
 aaccttggcc catgggctca gaaactaccc tgagggtcat gagaatctta gggccttctt 360  
 cagcagctct aacctacntc ctttggagcc 390

<210> 28136  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<400> 28136

tgcttgtaga ggggtgctca ttggaagatt ggaaagctgg agatggtgag agatgagagt 60  
 gcacgaaatt gtagggcgta ggtgggagat gacttgttgt ctgaggtggg tgacacacca 120

<210> 28137  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28137

tccatcagag gagttcctaa naaaggcaga anaatacatt tattatgaaa aaaattttaga 60  
 agttggaaaa ctaaaaatgg tagaaaatga gagtatacaa aaaattaaag cataggtgaa 120  
 aaatgacaaa ttgtctaagg tggatgacaa accaactcac aaagctaggt caatgtatga 180  
 caagtacact cccttgaatg catctcgagg tagaatattg aatgaaatta tgaatgtaga 240  
 actgaaggat actagtcttg atgttaagaa ccgaanatgg caaaaaacac cagtaaaaat 300  
 attttcacta tcatcgagaa actagacaag ataaacaatt attttcaatt gaaaaatgtt 360  
 attgaaagcc tcattcatcg aggaaaactg gatagatatg tctcagatcc taatttgtcc 420  
 aaggactatc at 432

<210> 28138  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<400> 28138

tctgaaatta actcagaaag tgccttgtct tcttcaccat gcttttagctt ctcagccaaa 60  
 tagtccttta cagaaacctc attctttgtc tcagttccaa caccaccagt gctagttcca 120  
 gtcactttgg acttcaatgg acttcctacc actgcaacct tatcataaac tggagcta 180  
 ttct 184

<210> 28139  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28139

ntgggctatg ctcttcggga catatcgagc tctgagctga tgagcctcta tagttacaac 60  
 tgcacatgca tggcacgcta tattcattta tactgtagaa gatagagcag ggcagtatac 120  
 anatgcaagt gcatgctcta gctgacctac tggtatttca catgtgactt aaatgtgtat 180

agcgttgcgt acatttcaca catggggcctt gctagatgaa cctacacgct gactccgatg 240  
atattgccgt acgcaagata gcacatgtgc gcaccttgga gtatctgacg cctatacata 300  
cgactacttg cgagatgcat attgaccatc tacaccctcg tgcgatacat ttcatgcact 360  
tttcacgaac ggggtcacat aagcctcatg cgcattcact ggttgtcttg tgcgctgact 420  
catcatgtac tacatcgtgt atattctctt tgtgctgtat ctacgatgca tatcatgcaa 480  
tactancn 488

<210> 28140  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 28140

tatgcgcata tttccttacg aacgttcgct tgcacaagac tttcttttaa ctaagaaaaa 60  
tgcaccata tacaatcaag gcagctccgt tacctagatt attttacatg tacttccaag 120  
gtgtatttgt tacttacatc acacacatct ccttggttaa atttacatac atgcatactc 180  
aaagcatttt ggggtaccaa aaattgcaca tgtgcacatc ttgggtatttc taatacctat 240  
acatacacia acttcatgat gaattattgac tatctacaca ataaagtgtc acatttcatg 300  
ctcttttcaa gtttttgcta cctaaagccg catgcaaatt caagtatatt ttcctttgct 360  
gactaaaatt gtattaaaag gtatatattc tttttgtaat gtatttctgt acataacatg 420  
caaca 425

<210> 28141  
<211> 182  
<212> DNA  
<213> Glycine max

<400> 28141

ctgcaggtta gtatgaatgt gagagagcgt gtgactttga agttcctgcg tgactattga 60  
tagaattgcc ttatcccata gtcctattgg acggtattga ctgatgcgga tactataatg 120  
cactctcctt gccagatggc cctacatggt gcttaggcat gagttaggat ctatgctatc 180  
ca 182

<210> 28142  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 28142

actaagcttg cctacattgg cggcagcctt cttgttccca agtgtttttt tatgaaataa 60  
 cttttccacc atgccacact tgtcaacatt taaaaatatt cttaccatct ggggggttgtt 120  
 aagtgataat atagtgggtat gggctgcatg tttgtatggt tgtttgtgag tgtgtgttaa 180  
 agtggttaat gagtgaatta tgaaagaaaa aatctatcgg tatgtaatat taaactatat 240  
 ttgtagtgtg tgctaattta atgcacaatc cttccaagaa ctccaaacat gtttcatatg 300  
 caatgagtgg ttgtcttgca tcagtctgtc atgtacctat gttctatggg gttgtaatta 360  
 tgcttgacaa aatatatact aatatactat tatttgcctt cttcaatatg tctactc 417

<210> 28143  
 <211> 144  
 <212> DNA  
 <213> Glycine max

<400> 28143

attgtgaagc aaccgaccga ctaaccctca tatatagact ggaccgggac taaacttgct 60  
 cgagctccaa aacgggtacag ctttccgacg tagaacgtag gactcaactt ggcccagatc 120  
 tcaaacctat ctctagtgtg tctt 144

<210> 28144  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 28144

gcgttgccct tgatcaagcg aagaaagggg ggtgatccta ttgtatagca aaataatgat 60  
 gaacaagctc ttttagagtc agctttgact aaacttggtg gagctgcaaa aatctacaaa 120  
 ctaccgatag aaaacttagt gcttcaactt caatttatat cttcaaactt atctctagag 180  
 tctctagtta tcaatccttt tgcgtcttat atgtcttttag gagaaggctt accagatgta 240  
 ggctctatct tggacgtatt taagtgtttt cctataccta tattaccata gtgaaactcc 300  
 aaatctgact ggagaacaat accaatagta ctgatgggtat gtgtctaact ttgttcctat 360

acctatatatt ctttgaagga gtggcactga ttactttttt at

402

<210> 28145  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 28145

gtggtatgtg aatacacgtg caggcaatgc actctattgt tcttatacgg cgagcgagga 60  
agggcctgtt gctatagtgt gcataattac catgctaaca atgttaattg tcaacaccat 120  
aatgctcaag atcaagatgt tctacatccc cactaacatt atgctctgat taccagactt 180  
ggcatgctca gagcgatcaa gcggcataac atgatgcgca actaatccat gaattgccct 240  
atccttctca tgatcagagg gctgttactc acatggactg cctccagtat tagactacct 300  
tcagcgtgca cacaactagc ggccttgaca tgtattttaa tgcgactggg gcactacagc 360  
tcgctcacat gatctcaaat gaatgttatt tatgagcaac ctaaaatatc agatgacacc 420

<210> 28146  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28146

ntgtgcttgc tcctctggca atcagcctga cccgggtcct ctaagtcgac ctgcaggctg 60  
cttgctttct tatttacctc cgattgcttg cttccgagct gatgcacgc gcgacgcata 120  
acacaacctt atctgtatat cggcttaaac tgaccagtag tgagcgggtc accttgataa 180  
ctctattagt atataccata atagaatata gcacctaagc taatgctatc ggattagtat 240  
gaatcattct atcatagatc tgagcgcgtg aaatgactag tataagtga gacacacggc 300  
tcttagcctt gatatttaca ggccgcttaa ctgtaagaat gaactcacac tacgtcccta 360  
tagttgctga tccctatata tagacgatac tcacatgcca aatatctcac gaggtcacac 420  
ttgcatcgac ttttgacgat aacgatttga accgtgtggt gaaccctcta attat 475

<210> 28147  
<211> 409  
<212> DNA

<213> Glycine max

<400> 28147

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tgcttccgtg ctgatgcac aagctctgca aatcacaacc aaaactatat aattcctaaa 120  
ttttattcat agtgaactaa gaactaagaa acattgtaat acttaataac aaggcccaaa 180  
ctaagcatca gtttaggaac atttaagatg aagtgttggtg tgaaaataat gataacgtaa 240  
tgactcacia cacttattat tgggtattttc aattgcttaa ctttaagaat caactcacac 300  
tactccacta gaagtgatga gtcctatata tagatgatac atgagatgca aaatatctta 360  
agatgccata tatccatctg ccttcactcc ttacaatat ttaacatgt 409

<210> 28148

<211> 236

<212> DNA

<213> Glycine max

<400> 28148

ttacagctat ggtcttattt atatcttctt gagtgggctc ctatcctatg actatactag 60  
agaaatatac ctttactatt aaacaaggaa gacatcccg cttatgtctaa gcttacaacg 120  
actatggatt cgacactgtc actgaacctt actttagggtc accacactgc tggatcgga 180  
aagcaaaact tctccagaca agaaacctac tggggatatg cacagcttct cgaaac 236

<210> 28149

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28149

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ccacgacact ggcagcagaa accaaaaaac taacaggaag caaaatcaca aaaatctagt 120  
gactaattaa gagtttccag tgaaaaaac tctcgaatga ctaattaaga gaaaaatata 180  
ctgactatta gacaatgaag acaccaatct tacctcgaac ccaacaacga caatggcaac 240  
gacactagca gtgaaacgta ctttatgtca ccacaacact ggcagcaaaa accaaaacaa 300  
caaaaaccaa aaaacctact tgggttaacc acgggttctc gaaacaaaca caggtacacg 360

aaacgtacct aggtaagttg cagatggaca accaaaaggc gagtttcacg gtcttcagcg 420  
caatgg 426

<210> 28150  
<211> 157  
<212> DNA  
<213> Glycine max

<400> 28150

cttgctgcaa aagactgttt atgagactcc caataatcta cttgatggcc tcccttgacg 60  
gccgttcac cttgtgaccg tctgtagacc tcttcacatt ttgttttacc cgaaatagcc 120  
agttccatcc aactgctgt attatgactg actattc 157

<210> 28151  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 28151

tggctaaggc tagactgcaa tattcagcct ctgtactgga ccttgcaaca acagactgtt 60  
tctttgacca ccaagaaact aaatttgagc caaaaatgat ggctgcacca gaagttgacc 120  
ttctgtgtgc atcatcacag taagcattaa ctgtaaaggg aggtccagta gaaggaggga 180  
gaatcttcca accaaagttg atggtaccag ctagatacct gagaattcgt tttactgctg 240  
cccaatgctg ctcagttgga tctgacatgt actggcagac tttgttaaca gtgaaactga 300  
tttcaggctg agtgatggtt gcatactgca aggctccac aataaacctg tctagagtgg 360  
ggtcaggcaa aggctcatc cctgacttag ttaacttgaa gcctcaacca ttggagaaga 420  
aata 424

<210> 28152  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28152

nnncctgtcc ttgctctctg gctaggcatt caccttgacc tcgtgtgcta agcagggaca 60

tgcaggcctg cttactttgt ttcgttgacc aacctaagga ccctggtgat gtgccgcgcc 120  
 ggacatggga cttgtggac tattgggggg cgctgtcgct cgaaccactc ttgcccactc 180  
 ctgactctgc ccgtgctttg tcgaacactg gagatctttg acggtcctat gcctgctagc 240  
 tcctgtcctt ctccaagatc aaacatcatc tcaaggggtcc gaccccggtg tgggggcatg 300  
 tcttgatttg atctcgatgt gtatcgcgaa tttggactct ggcaactcaa cccagtggt 360  
 gttgctacag aaccacgtct gtctgattgg catcatataa tagaggagag actgtggagc 420  
 atgaggactc accgggggtgc gaccacatta gcgggcttaa tacttgaggc agg 473

<210> 28153  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28153

tgatgtgaga aagcgtggaa gagtcagtct tcctactttt ttttgttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg gggtaagag accttgagga cgtcagggtg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgacct aaccgggga tagttagtta gtgagaacct 180  
 gtgacgtacc taatcaagcg agctcctggc agtcaaccga tcaaacaaca taaaccacta 240  
 agccaggaac cttgtgcggt ggctggccag ctatggatct tgagtgggat ctggaatctg 300  
 gcctctggta atcaattacc aatgggtgtgt aatcgatnac agggcttaca aatggagaca 360  
 gaaagttaaa atggcctctg gtaattgatt actaacggtg tgtatcgatt agcgggctta 420  
 aa 422

<210> 28154  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <400> 28154

tttatactgc atgagaattg tcattttccg aatgatggac cagttgacac tgtgccctta 60  
 tatttggtga atttctgac caattcctgc cttaacttta aaatatgaga tgatacatat 120  
 ctactcgtg gttatccaga cgcattcata ttcaatagta ttactgccac atggctcagc 180  
 actcaacaag agctgtatga ttatactcta tcgcagacgt atcatgagat gtaagctaata 240



taatggggca ttactgcacg ctataccaac attggattca cacatacgca taacagagcc 300  
gctcacacta ctt 313

<210> 28155  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28155

tggaaataaat tcttgtgatg gccatttgaa caattatatt ttccagcata atactntatt 60  
caccaataga atagtcatta aaagtatgat ggaccaattg acagcggacc cagtcaaattg 120  
tggaaataact tatccaatac ctgccataac tttaaaataa aaatatatac agatcatcac 180  
tgttgttctc ccaaaccat gcatttccaa ttgcaaaaca accacatggc tcgggttcaa 240  
caggagctgc atcattatac acaatcacag acatcacatc accaagaagc aaaatcattg 300  
ttcaaaacaa gcacatata cgaacatcaa atccaacaca tatgcataaa aataacgcta 360  
aaactacttg ccctagattt tgcataaaca caaatgaacg gcctcaatca catcttcagc 420  
a 421

<210> 28156  
<211> 329  
<212> DNA  
<213> Glycine max  
  
<400> 28156

gcagctgtgg ctgcactttt tgtaagagag gcagaccttg gatgggttat gacgactgag 60  
ttgtggccaa tctgttatag agcttcttca tgagtattat tatcattgac aaagacctga 120  
ctaagatggg accgttttca gattttatct tgtaaaggaa acatggacta ggatgacacc 180  
tttagacact gcctgtctta ttttgtggat gtattattgt gaatcatctc taagccctat 240  
ataggaaaat agaatgcctt ctgtcttgct cttttctttt gggatactga gtgtagaact 300  
tactagaagt ccatatgata ttgatggac 329

<210> 28157  
<211> 402  
<212> DNA

<213> Glycine max

<400> 28157

ggacaagccg gcttgtttaa ataataataa tatcaataat aataatcatt attatctata 60  
ccatttttat ggaattatga atgacatgat gaagtggcat aaagtgttta gagagttcac 120  
ttgcatgtga aaaaatttta aaaagaaaaa gactcaagtt aaaagaataa tgcaaccagg 180  
ttaatacttc taaagaaaag aatgttttgt caagacattt ttagacaatt taaatatttt 240  
tatttggtg tattagtata aatcatctct aatccatata ttttttaata ttatgctctc 300  
tttcttttca ttttcttttg atatactctg cgttttaaact acttgaattc aatatgattt 360  
tgtttaacaa ttatcttttg atttgtacat tacttataca ag 402

<210> 28158

<211> 261

<212> DNA

<213> Glycine max

<400> 28158

atctttttct acttcactct ctacctagga tgaacgtttc tttgcgaagg tgtctccaca 60  
cttgacaata ttgatcctga cgagaggcgg gcatgactgc gtgagctaca cactgctttg 120  
ctagtctaaa cagcacctga atagggtccg ggcttattta cgcttccac accataccta 180  
cctcggacaa gagacatggc tcttcctccc gctgatatct gcagctgctt gagagcggta 240  
acttcatgac cctattattt a 261

<210> 28159

<211> 430

<212> DNA

<213> Glycine max

<400> 28159

ctttggtttg aggtctttct tctgtattat ctagaaacat tttctgataa gcatattcta 60  
caaaacacac tagcaaggct agacattcct taccgggtggc atttccagac ttgaaaattt 120  
tcacctgat gtgatccagt cttggctatg tgatctacac attgatttcc ttgtctcaag 180  
agtattccaa aggttcccc ccttaatagc caataccaga tcatttctcc tttggtcttg 240  
agacatggtc cattctcaat tttctattac aagtaaattg agagtggtaa cataatgaac 300

ctaatagcag tgataaaatg actccttttag aaaatgacaa actccaagta tgtttgtccc 360  
catgtttccc cgatgtgcaa aattatgaaa ttattttcac ctaccattgt tctctttaca 420  
attaatgtct 430

<210> 28160  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 28160

tcacgactgg atactatgat accttcacag cgtgtactat ctattgtaac aacatatagt 60  
tcatcaatat aggtgtcact caaactctca tatgctagca cttttgggcg ctgctcaga 120  
gacactcgcg ctcttcggtg tacatgccct gcacccgcca cacatctgta gaacgagcct 180  
acctatcaac tagaagacat tcgtggcaag ctttgacttt tctaactctc tctttaaaga 240  
tagaaattat tggctcttatt gc 262

<210> 28161  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28161

tcttttggac cttgaacagg caactaactc ctctttcatt accatgccat gtgctcgga 60  
ctgggccctt tcttcccttc gcaacttgag ttactattg ctacccata gagctccgag 120  
aaatttggtc cgccataact cttccttgcg agcctcttg gtctcttggt caagggctct 180  
tgcggttaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240  
caacttgaac ttctccttgg caagttttgc ctttctaac tcgcttttga gagcttgga 300  
ttctttgtct tcttccggtg cttcaaaatt ctctttgtg acgactttta acttggcgag 360  
ccaatctaaa cctcgatatat gaactttcag ccattcgtgg taccaccat gatgccatta 420  
cgaatgc 427

<210> 28162  
<211> 121  
<212> DNA  
<213> Glycine max

<400> 28162

gagcctgcta gagccgatct agaggacttg caggcttcga gagctcgatt gcgccatata 60  
gagagccgga cgtcaacacg gtgatcgctg ttttactgcg gaaagagtga tacaatcatg 120  
a 121

<210> 28163

<211> 281

<212> DNA

<213> Glycine max

<400> 28163

acttataaag aaggcggacg catcaaaaca cttatctgag gagagcacct atcacgacca 60  
ggcgagctcg ggggccaccg cactctccca tcaatggtga agaatgccgt aatgtgcggc 120  
tgtcgtgcca tcgtcacatc cctgtgaccg cgtgtttgcc tttttatctt tgaataagag 180  
gagagggagg aagagaatca gagtcgctac gctgacgcac tgccatcatg ctacgcgggt 240  
gactctgcga acaataggag acattcggaa acgggggtgaa g 281

<210> 28164

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28164

taacacctat cgccacaagt tccatgaggt tttggaaaga ttttatcgaa taacacaaaa 60  
agcggaaaag ggggtgaact tataaaaaag ggggatgcat cagaaaactt cctgaggaag 120  
ccaccagttc gcctaggtga gctgggtggc atgcacctcc acccaatttg ttgaaaacgg 180  
gtatctaggg cttccgtaac attttcgtaa ccctgggaaa gcatatttca cttaagatta 240  
atgaagagga agagaaagag gaggaaaatc aaggtcgata cacttccgca atgcttccgt 300  
aatagggggg gaacttatca aattaagggtg tacaatagga agcttcctga ggaagccacc 360  
aactcgtcgg ggcgagctga gctctcctgn gcgagctggg cggcaaatcc tccccatttt 420  
ggcta 425

<210> 28165

<211> 481

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28165

ttgtgccata cttctacnga cgatatcagc tctgacctcg ggagcctcta cacataatgc 60  
tgcggtgctg cgagcttggt gagatggatg gacacacgcg gtcgatagga acaaggattg 120  
ggctctatgct tgattacttt atctcaccga aggcccgaaa ctgttgacat gcgcactatg 180  
ggaggactcg ggatctagct agtctacttg caatattacc tcgactgtat ctacgacgaa 240  
ctgtgagggc ggcacactag accgactatc tcctactgac taatcgtagt agaacgatac 300  
ctactagtct aacatcatga cgaccaactg tctcttgaac atatgacgag ccactcatga 360  
taccttgctg acatcccggt gtgcgctatc gtcaaaggct aagctctgtc tattgaagat 420  
attctgcagc ttagtgcaga tcgtgagaca ctgtgaagta ctctgctagc gagctacgag 480  
g 481

<210> 28166  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28166

tgggtgatgt tgcgcatact gatgggtacc atgaggtgtc tgcgnggggt tgacccatgc 60  
gggcgttgaa gagacagcat gggatatctc ttcttctctt tttgcccccg ttgtcccgat 120  
tcttttggca ttgcgactcg tggaggaaac gtaatcgaac tttctctctt tcaatcctac 180  
ctcgattctt tccccggcga aactaggctc cgcggaagctg gacggcatgt aacctactag 240  
cttctcatag tagaactctg gcaacgtgtc taccatcata gtgatcatct ctctctcgac 300  
catgggagga gccacttggt ctgccaggct tctccaccgc tgtgcgtatt ctttaaaggt 360  
ttcgccctct ntcttgaaca tattctgcag ctgagtgcga tcgggaccat atcggaatta 420  
tact 424

<210> 28167  
<211> 193  
<212> DNA  
<213> Glycine max

<400> 28167

ggcggggcgat agggctctcc aagtactcca cattcacctg ttacgcatca acccaccttc 60  
tgctgcggtc ttactctact tggacacacg tactccaacg tagcccatat actttttcgt 120  
ttccacacca gctagctata ttgtcttcgc ccctatctgc gcatgactac ttgtgtgatt 180  
acaacacctc ttt 193

<210> 28168

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28168

tgtaggatta tggngtaccc atcacatgtg gtactttggt gcggtcgggc gatggtgcac 60  
aacaagtttt ccacattcac aaatcgcgca taaaccacc atccccgtt gcccacctcc 120  
aactgagctc acgtactccc acgtagccca tattctcatt tctctgaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa cattcaaaca acacaaacca 240  
tcacagccaa tataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300  
caacttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360  
gatcgactcc aaaattttac tggacgtctc tagtacataa gcttacattt gaacgttggg 420  
atctac 426

<210> 28169

<211> 111

<212> DNA

<213> Glycine max

<400> 28169

tgcttactgt cgtcgacgag tacgctataa gacctacggc ttgtcgatgt cggcgatcat 60  
gaacattgtg ttgattgtag cccaaatata cgccgattta taagctggta g 111

<210> 28170

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 28170

tgtctcagcg tttatgcgag acagagacca acatgttata tatcatcgcc aagtaccaag 60  
aagagttagg tctagccacg gccacgagc ataaaatcgc ggatgagtat gcccaagtat 120  
acgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180  
ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240  
aagccaaggc aatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300  
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360  
tggctctctca gaccttgact agatatgact ntctttttga aataaaagag ttgggtcccat 420

<210> 28171  
<211> 220  
<212> DNA  
<213> Glycine max

<400> 28171  
acctcggctg tatcatagga ctccacatcc tttgcgggca gtcctcaatg gatagaatga 60  
tacctccctt ccttatatcg tcacccttgc gctttcaaac cacaattccg gatgaggcag 120  
ctctgcccag aattatcgcg cggccattac ttccatttta cgcaactcaa ctactgattg 180  
ttgaggccta gaagaatgtc acaacgatac ctttcacctc 220

<210> 28172  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28172

tctatataag ctgaaccatt ttatcaataa acacatgttg ttttntattc agaaaattag 60  
agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
accttggtcg tatcaaaaga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180  
attcttcctt tcctttcact atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240  
cctctgcccga gaattatctc gtggccataa cttccatttt acgcactcaa attaagtgat 300  
tcttgagcct aaattgaatt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360

ttggagccct gttgcttcag ttattgccat ttctatatatt ctgccagcca ccaacttaacc 420  
t 421

<210> 28173  
<211> 206  
<212> DNA  
<213> Glycine max

<400> 28173

tgctttttat tattataaga aaagtaaaca tcgctgatct atgctggctt aaggaggtcc 60  
ccaagccata attattctga tgtaaaccct atagctgcag acagagaatg aaatcttcac 120  
tattatttat agacaaaaaa cttatgggtt catatatcat aattactcag tatgttgtcc 180  
taatattaat atgcccttat gatgtg 206

<210> 28174  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28174

tgtcactgag gtgttgaatg atatttgatt ctattggttt tattcttcta aaataaataa 60  
aattcacagt ttttaataaaa cataatgtta tctttatgcc ggtattaatt ttttttttac 120  
cttttatcac ctgaaatatt ttgttttttt tatgaatatt tggagactaa taatttattg 180  
atagatttat ttttaatttct ttgtttgttc tcttaaaaaat aaaataccct agtcaagtga 240  
gagagagtag ataaggatga atcaagtga cttcaagtgt gagcaaagga gctatcacat 300  
aaaatagttt taaaattatt agaaattctt gtatataaga gaattgcatt agatgtgcta 360  
tgcaagtaat caacatgtgt tntgtcttta taaatctcta cacatatatc attantttac 420  
t 421

<210> 28175  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 28175

attgctacac cttttctctt cttacgatcg tcaaagctcc taatggcccg gatgtcaacg 60



caggcctctc aaaggcggtta cctgatatac ccattcatga tctcgtagag gaaaccgaac 120  
 cgcgttcggc aagtacctca acacgacatc atctccctga acatggtggc agacacgctc 180  
 catccttttag tgctttcata ctggcccagag atatatgtgc actgtactta tgatattcat 240  
 gtggagact 249

<210> 28176  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 28176

tcatccaact taagcatgga aagaaggcat tatattctca tacacataag atttctaaaa 60  
 acttttcacc cttatcgacg attgtaaaaa gcttttaatg gaagtcatga aaatgaaggc 120  
 ccctcagaag cattaactgg aaaccaagtt catgatcgcg taaaggaaat tgtaaccgtg 180  
 tttggcaagt ccagaagaa gacatcatct cccaacaaca tgtggaagaa atgctcaata 240  
 tttttgatct tccatactgg tctgatctat atgtgactg tctagatggt atgcatgtgg 300  
 agaaaaatgt gtgtgatagt ttaattggta ctcttcttaa cattaaaggg aagacaaagg 360  
 atgggttgaa atttcgtcaa gacttggttg acatgggaat acgagacagt tgcattccat 420  
 at 422

<210> 28177  
 <211> 104  
 <212> DNA  
 <213> Glycine max

<400> 28177

gattcccaga tgtgctccat atgtccaacc gacgcctatt accacactgt gatgggtacc 60  
 ccgatattct accggcttga taagatgata tgtcgtttgg tgaa 104

<210> 28178  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28178

cgngaggatt gatggggacc cggtgttgat agaaatgagg atatgggcta cgtgggagga 60  
 cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcacgc tttgtggatg 120  
 tggaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180  
 ccataatcct acaagcttga gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt 240  
 gttgaccaca gagtgggtacc tggagatatg tcgcgggggt caggagacct tggtgacgtc 300  
 acgtgggggtg ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt 360  
 cggtcagtga gaacctgtga tgtacctaag caggcgagct ctggcagtca ac 412

<210> 28179  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 28179  
 ctgcagcatg ctgcttttga tggatgaatct agttgcttat gttaggaatg cgacgacctg 60  
 tgccttttga gcacgactta tatattgagt gggcaacttc actatctgca ttttgttctt 120  
 gttctgcgat atgacacctt gagtatgcta tacttcagag atagacgttc tccactatct 180  
 agagatatga tctttgtaga ttctatagat gatgactccc ctattcatga gatgacttct 240  
 ggagaacttc tcaaagtcac actcgaattg attggtgata cccaagacta tctcaatact 300  
 gtgtgttgaa taagccgctt tcactatctt cttgatcacc atagt 345

<210> 28180  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28180

ttagaagaat caaccatggt tatacaataa atctcgacat agttggtaat agctagttcc 60  
 ttatgttagg aatcccacat cctgtgcctt tggggcacia cttatatatt tattgggtaa 120  
 cttcacttaa tgccaattgt ttttaagctg aaatctaaca cettaagtat gctaacaaga 180  
 gtgtttgaca tcccacacta actagtgata tgatcaaagt agtatatata agtgaagaca 240  
 cccctcatca taagttagct tttggggatt aagtttagact catacccaaa ttcaaagggtg 300  
 ataccaaagt ctattntaag acaatgtggt gaatatcccg catcaactag taatatgatc 360

aaaatagtgt gatataagtg ggggtaccct aaatctatga gctagctntt tggga 415

<210> 28181  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 28181

gtggggtgac accggataac tatggccgtg ctacgtcgct gctggtggtt attgctggtg 60  
ttaaccacgc ttggacattg gagaaggatt gccagaagat tgataaccat gtgtttgcta 120  
taaccgctgc acgacaaaat aaggcttgca ttacgtcctt gctggtgctc tctggaaaag 180  
atgcattcct cacacgcctc atgacatatc gtagatcgaa cgggcctatc atggtccttt 240  
gccctatgct cgtccagatc caagcttgag aagatc 276

<210> 28182  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28182

tatccaaaca aggcattagt tctcttataa gtaagtctat cctaacaagg tctaacgcat 60  
gcaaagagaa aggttatcaa ctgacaccaa ttaactataa acgtgctaca tcaagggtgat 120  
ttctaaatac agaacttaac cccgcttaaa agattaagaa taaagattaa ccagtagttt 180  
ggttaaccat gtattttacaa caacccccgc cccccccccc cccccgggca ttttgaccta 240  
actgggttac tttcacaaac ttattcccaa tatagggtctc ttcttaaact atttccaagc 300  
tgggtctggt attctacgta accctagcct atcccgccag catgcatggc ggtatcactg 360  
gcgttgcgac acgtggacga tgtcgccagg atgaatggcg agacagctgc acttgggatgc 420  
cgccagt 427

<210> 28183  
<211> 522  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28183

cacccccccc accccaaata aacgaataga atttgatcaa taataacaaa anacaaaaaag 60  
 cggagtaatt gtgacctcga aacctcgaa nacanaacac caagccagca ccaacacgcg 120  
 aaaaaagac aacgcaaagg acattatatt tatgtcagaa agctaacacc taactcgtaa 180  
 ggaggaagac cttgaccacc aaactaatgc ccatactatc tttacacact ccctcccaca 240  
 ctacgctatc gccctctctc catccccacc atcagcgtag gaatctaacg aacaacgaag 300  
 aacgccaact aatagcaccg aaaaaaaaa catagaagca accacagggc caatccacac 360  
 caaacaggag agaaaccaag ctaactaatc aataaatgta ggccgaaacc aagaactgca 420  
 caccatataa ggacaacata aaattcacac cgcaaactca ataaagacct ttgccgcaga 480  
 caaataccag agtgtaaaac aacaaccaac aaatcgataa aa 522

<210> 28184  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28184

aggacgaanc ctgangcctg gactcntcgc gaccaatcga gcatctgacc ctgcgagcct 60  
 gtggagtcta tgtgcaggca tgcaagcttt tatccgttgt tctaactaac cgtaaaacgt 120  
 gtgagcgggt gggagagata cttcttgccc tctagagcct ggaaatcaat gaagggatga 180  
 tatcggcttt agatgagaac acggttaatg atttacgtac aggaaaccga actcgcgtagc 240  
 gtatatgtgc cttaacaaga cgtccagata ccatgaactg ggggcagaca cgttccatat 300  
 cttagagaag ccctacgcgg cccgagagat atgagcactg gtcatacggtt attcatgatg 360  
 ggacgaaagt acttgatcac caatgcgctg ctgttggttag aacaatcagt ataagctaag 420  
 acctcttaag accgcagatg gaggcggatg aacggagatg tgaccaatgt ctggcatttc 480  
 tgttactgtg tg 492

<210> 28185  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <400> 28185

actaagcttg gtgatgttgc gcgtactgat gggaaccatg aggtgttctt tgaggtctga 60

cccacgcgga tagggaagag acggcatggg catctacttc tttcctttat gcccatgtag 120  
cccagagtct tttggcattc acgtttgtgg aggaaacgta atcaaaacttt cctctcttca 180  
atccaacctg gaatctttcc ccggcgaacg ccagatccag aaagctggac ggtatgtaac 240  
ccactagctt ataataatat aacactggcc gagtgtctac catcatggtg atcataactc 300  
tctcaaccat gggaggagct acatgtgccg acaaatccct ccatcgctgc gcatattatt 360  
taaaggtttg accctcttac ttgaacatat tct 393

<210> 28186  
<211> 185  
<212> DNA  
<213> Glycine max

<400> 28186

ataccctatc agttaggtgc atgcactagc tacaacatgc caccatttag agctttgctt 60  
gttggctctgc ggaaaaagac cagttcacgt gccctgtagc gactaccaca tgcagagact 120  
attggcaaga gtgtatgcta cataacttac tgtttgcgtg attccagatt ggatgacaat 180  
gccct 185

<210> 28187  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 28187

ttgaggggtgc gtagcccacc atcttttcat agtagatgat tttataatgt gtctaccatc 60  
acgatcatcg tctccctttc catcattggg ggtaccacct gtgccgccag atccctccac 120  
cttttgggcy tgttctttga aagatccgtc cccctttttg caaatgttct atagttgcat 180  
cctatccgga accatatcaa aattgtactg atactgccta acaaaggcaa ccattatgtc 240  
cttccaagaa tggactcggg aagaatccaa gttagtgtac caggtaacag ctaccccagt 300  
aagactttct tggaaggaat gtatcagcaa ttcctcatct tttgcgtatt ccccatctt 360  
ctgacaatac atcttttagat gggtcttgcg acaagtagta cccttgactt gtcaaagt 418

<210> 28188  
<211> 473

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28188

ttgcctgggc ttgctcctct ggccatcagc ctgaccogtg atactcatga gtcaacagac 60  
tgcatgttat catgtacgat ctatattacc cataactaata tgatctggga ggggtataga 120  
ggtgatacac atgtaaacta tgtcactttg acacttcaaa cgttaaaata cttccccac 180  
ataggcacgt tgactttgag acctctcact aacacgtagc ccataagatg aatcctctca 240  
acacacgtgc ttctatctac ccatgctagg ttccctctta taccoaagat tcaatttgct 300  
ctaccatgaa actatacgat gccaaagaaa caggcgccta tgcagaaaaa gatctgcccg 360  
aatgacatac acagatcaga actttcatta ctcatatagc gcagaaagaa tatggtcgct 420  
acgatgtcga tatccgtttg aacgacttga atactttatc gtaagcacgc aan 473

<210> 28189  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28189

tgtatttaaa aatgtgttaa agatactctn aattaatatt tgaattttca ttcctttatt 60  
aatatatatg tgaggggtag aggggtgtcac acaaataaac tctcccactt ccacaaatca 120  
aacattaacg taccatcccc agttaccac cttcaatttg agctcaogca ctcccacgta 180  
gcccttatcc tcgttcctct caacaccggg tcccatcaa cccctccaag cttccacaat 240  
atccaaaaaa ttaaattcca aataccatga aactatccta aaccaagaaa acagggcaga 300  
ggcagaaaac tctgcccata acacattcac atatcagaac tttccttact catatatccc 360  
agaaacattt acttcgttcc gattcggtta ccattcgacc gacttgaaat ttact 416

<210> 28190  
<211> 237  
<212> DNA  
<213> Glycine max

<400> 28190

cccatctcca tgattatgat tattacctga cgtttcgaac aaactaatc gacgttacat 60

gacaactcta atggccgctt gagtacctca cccactcaag aggatcacac aataatggct 120  
 attctctaata gaaacactct tgccttttac cactcttatt caccttgata tattatgcga 180  
 ttcaagagat tatggccaca tcgaagaaca attcacctat gtgtgtcagg taacgct 237

<210> 28191  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 28191

tatagaaact aagctttgag cacattaaac gacataactt tttactctgt cttccgattg 60  
 agtcccgtaa tatatcgaga cgctcgtgat tgaaaacaga agctctgagc aaattcaaac 120  
 gacaataact tttgactcaa atgtccgctt gtgtcccgta gtacatcaag atgctcgtaa 180  
 ttgaaaaggg aagctctaag aaaatcaaac gacaataact tataactagg atgccggata 240  
 gagcccctaa atatatttag acgctcacia ttgaatacag aagctcttac gaaattcaaa 300  
 cgacaattag ttctgactcg gatgtccgaa tgtgtaccgt aatatatcga gactctcgta 360  
 aatgagaaga gaagctctgc ggaaattcaa acgacaataa ctcttgactc t 411

<210> 28192  
 <211> 93  
 <212> DNA  
 <213> Glycine max

<400> 28192

cagacatcga gacgaagtta aatcaaagat aataactaag acttacttat atgatatgta 60  
 taactaaagc ctaataccgg ctataaaaat aat 93

<210> 28193  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 28193

aatctcacta cactgtgagg cctgcctgag acgatccctg cgagaccatg agcgttcgac 60  
 gctccatatt ctaatgcata ggccatccac cttgacaaga tgtgtctaga tcactactac 120  
 ccagcgctat ctattatcct cttcacaacc ctaggactcg atcctggaga atctggtaag 180

tggctactgc tgtcatgact actcatagtg ccccgctttt caaggctaaa gttctatacg 240  
tctgatagtg gcacaaatac ctggccacag atgatgacga acctattcta atatcgacta 300  
atagatgcag catcatactg agcgcaaggc ctctaaatca tcttcacgct catgagagcc 360  
tgtgtgcctt acctagg 377

<210> 28194  
<211> 380  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28194

gagaaaatnt ctttgnnaag atagagctta tctattcaca cccatctaaa aactaagcgc 60  
acctncttga gaagcttnct tgaaaagatt nntaaagaag ctagagctta gctactnata 120  
cctttttaat agctaagctc acctncttga gatgagaagc tagaacttat ctacacaccc 180  
cctataatag ctaagctcac ccccatgaca aaatacatga aaatacaaat agacaatgcc 240  
tactatagag actactctca atgcctcgaa atacaaggct aaaatcctat actactagaa 300  
tggccaaaat acaaggcgcc gacgaaggag acacctattc taatatttac aaagatatgc 360  
gggctcatac ttagcccatg 380

<210> 28195  
<211> 359  
<212> DNA  
<213> Glycine max  
<400> 28195

tgctgctagg tttggcagtg tagatagtgt ctataataca gatgaggctc ttgaccactg 60  
ttattttctt ctttgagcat gggaaatgcct ttattgactg cgcattgccg gaattatgat 120  
gtttgtactc cctatgaagg gaacacaatc tcataacatg agagcataca tgtagttgac 180  
tcaatcaact gtgcttcaac cactgagatc tggatgtaat agagtgatca tctattttta 240  
gcaatttcac agactttctt gtgactataa aaattaatct taatagggtg agcatgtgtg 300  
aatagctcat agctactact attgaacata tatatagtaa taataactta tgcttgtgt 359

<210> 28196



<211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28196

tgaatcatgt gaaaataaat caatcattct gtatatgtat cacaaattat atatattgat 60  
 aagaattaca aattaaaatc agcaaactct taatttcggt taattaatat gtgaaaacat 120  
 ttatgagcta agcttaacgt gaattaatct ttttttaatc catataaatt gaacacaata 180  
 ccataaattt ataacattca tatattctac tcaatcaact gaactaaaac cactgataac 240  
 taattttaat aaaatgatca tttattttta ccaatttcac agaaaaactt ttgactaaga 300  
 aaatttaact taattgggtg agcatgtgtg aattgctata nactactagt tatgaacata 360  
 aatatgttta taataactta tgcatgtgtg tccaatgtat ctctgtataa ac 412

<210> 28197  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 28197

ctgatagaga gggagaatat cggggattct cgactcctat atcacaccct tcaatgggaa 60  
 ctccaatcta tacgtgcgga cagattaatc gcgaatcatg agacacggac tgtgactgat 120  
 tactcgcgat tataagagac gatagcatga gctctaacga acctgatacc ccctatacca 180  
 caatcacgaa ctctgatctt ttacccttta gttgaacgcg caagctgaat ctgtagtaat 240  
 aagaggggga tcatacacga tatggtgata acacacacca atattggatc ttccctatat 300  
 ctttctct 308

<210> 28198  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 28198

taactgaatt atatcattga ccactaagac tcttacatta taagggacac aattcctgaa 60  
 agagtgggag aatttcaggg attctcgaat catatatcac acccgaaaat gggaactcca 120  
 atttattttc cgaaggattt tggcattcat tgacagggac tgggacttag tctcaggat 180

tttttgtgat gaaggettga attttaacga cccttatacc ccctattcca cagtctcggt 240  
 ctcttatctt ttacccttta gtttaacgcg caaacatttt ctctataaat aagaggggggt 300  
 acatacacat tagtttaatt tcccacacca atattttctc ttcctctttt ctttctctca 360  
 aatagaaggt gcttagtagt atggaagacc tggattgggtg ttcgtttacc ac 412

<210> 28199  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 28199

ctggacgtat ctgcagtat ttacattgat gagcctatcc agccctgggtg tcctgacttt 60  
 gattcgaata tgactaccgg ccatgatcgc attaccgtga tctctccaca ttctgatcga 120  
 tcttcgcacc gtatgacatg ccttgcgaaac tacttggagg cgctttgcgt tgatgtgcac 180  
 taacacgccg tgtgacgaat ggcgagagag ctatcgtggg acggactcga tgtacgggtg 240  
 atatcggtcg aatgatgagc atgacgagag aattgttgat actaccccg cgtcccggtta 300  
 agggaaacatt tgggaattcct tcgcatgaag atcgaatcct gattctttct tgcttctagc 360  
 gagggga 366

<210> 28200  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28200

ntgccttttag ggcttgtacc tcatcacttt ctccgaagc tttaacctca ttgtctctca 60  
 cagtatttag atttgggagc caatccaatc cttgtgtccg gactctcagc cacttatgat 120  
 agccgccgat gatcccatca ctgcttcccc taagctctct gttctttctt cacaccgcat 180  
 cacatgcctt gcaaactcct tggagtagct ttgcattggg gtcactaaaa ccccggtgtaa 240  
 tgaaaggcgt gatgctttcg tcaaattggcg ctctctcat ggggtagcca agctgtctta 300  
 tggcaaggac aagattataa tttatacaac cccttgttcc cattaaggga acatttggaa 360  
 atccttcgca tgaagataga atcctgattc tttcttcctt ctagcgagga accaattaac 420

agac

424

<210> 28201  
<211> 151  
<212> DNA  
<213> Glycine max

<400> 28201

agtgtataga ctcggacggt ctaaccata ctaatgatgg tgtcagtcgt actgtggata 60  
ctaaccagga cgatgcgcgc tccattccat agactcttgg attgaatcgt atctttatta 120  
cactagctat tgtagctcgc aactaccatt g 151

<210> 28202  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 28202

cggctcaacc tgctttataa tctcccgacc caagtctgtt tctttagcat tatatagctt 60  
aggttaggcc tgacttatta gtctgtataa acctaaagg cctatttcat agtaagtttt 120  
aaatagggtg atcagtctat cctaaacaga tcaattggct tacaacgtaa tagactatac 180  
taaacaagtc aataatcagc ttactagtta gcaaacatac gaaaacagat tgcattttat 240  
agccattgca accagctcaa gtctgaaaca aaatgcttta gttgataaaa taatgatata 300  
atattacatg ttaaataatta aaacgatata atattaccat gttaaataatc aaaatgatat 360  
tatttacaaa taagtcagtt cgataagccc aacacgttct cttaaaagtc acaacctgac 420  
ctgc 424

<210> 28203  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 28203

ttgggcatgc acttctggcc tatcagcctg acccgggagc tgctagtcgg ctgagatgca 60  
gcttttttagg tagctttgca cgacctggca agaagacaag cggagacaga tcgacctttt 120  
ggaattctgt tacacgactc acagtgttgg ccacgcaaaa gcgctactcg tgcggccatt 180

catataccag agtctgtgaa ctgtgaggcg agattgcaaa acctatggta gcaggcagac 240  
ctaaccagtg ttcctataga tcatgcagcc gaacgacaca tactcaactt gtacctgaac 300  
gccctctcct gtgctgcttg cttaataaga ggtggttgac acgcgtgagg ttgactacac 360  
gtacctacct taagtcatgc cgacgtcctt gtgcaaataa tcgagagcgt aactgctcgt 420  
gccctgtaga tactacactc cacacctgac c 451

<210> 28204  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 28204

gggagaggat gctcaatgga tggaaagaca gaggagata aagagggagg ggggagcacg 60  
aaattgaagg aagaaaaagg gagagaagtt gaactttgag ttgtgtctca caagactctc 120  
attcatcaaa gttccaacga gtgttacaca tgcttctatt tatagactag gtagcttcct 180  
tgagaagctt tcttgagaaa acttccttaa gaagcttctt tgagaaaact tccttgagat 240  
gctagagctt agctacacat acccctctca taactaagct cacctccttg agaagcttcc 300  
ttaagaagat tccttaagaa gctagagctt agctacacat acctctctaa tagctaagct 360  
cacctccttg agatgagaag ctagagctta gctacacacc cccataata gctaagctca 420  
c 421

<210> 28205  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 28205

gtgcacgctt gctcagtttt tggcacatga accgtggctc gctgactcat ctcatectcc 60  
acatgtgcga actgggccat atgcactggg tcagaatgcg tattgggccc ttacggagct 120  
ttaccctttg gactgacctg ttgataatgt aacacacgta accgacgctc agaactatca 180  
taggtgacag agctgatcaa tagcgaacaa cgctgactct tgctaagtga tgctgtacct 240  
tcctctctcc gacatctttg agacctc 267

<210> 28206

<211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28206

ntaagtgtgc aaacactcca tgtgggtggc gctctatata tctttccgtg gttcatgaag 60  
 tgtgtcgcaa tgtctctttt gttctttgaa gcgtatgagc tcacatatat gcacctgcag 120  
 agatagcgga attgagccga acatgcataa actgtctgga ttggaagtct acaaaggaaa 180  
 aagtgaagct gccagcatga tctagctttg ggtagagagc tgaagaatag tgtaaagtgc 240  
 taacccttac taagtcatgc tgtaacagcc tcaactcctc ctatttgggg acccagtaca 300  
 gtagtagatt cttcaacaat ctgatagaca cacaacgctt attaagcata aggtaagaag 360  
 ttagtgggca tgagaagaac cactgttagc atcgtatatt cctgcttatt attatctgag 420  
 att 423

<210> 28207  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28207

ntgggctgac acttcggcgc ttgagctctg acccgagatc cttagagtcg accgtgcggg 60  
 catgcaagct tgtatacttt cttaagacgc agacaacact gcatgagtag gaggagtggc 120  
 cacacctcgt tgtccggagc gagatcttta ttgtcttaat cctgactagt tgaatgcaac 180  
 tgcgtcataa tcttcatgta gacctcgaag cctgaaggcc gccccgcgt atataactcaa 240  
 cgcggcagac ggttcgatat gttaaaaacc acctaaactca gtaggggtga ttaggctcaa 300  
 cgtcggttacg cgtttcacga gatattacgt cgataatgcc tacccttgct gccaggaggag 360  
 ctcgcaggta tggcactgct gcagcggaag aactctgtcc tccgctggca gttgcaagag 420  
 tgttgcatac ctgcttgcta catgacgaag g 451

<210> 28208  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 28208

ttgacaacga tagcgtatct tgtgcatgac tcacgggggt ccagacacct tcatgactta 60  
aattggagag cgtttgccct gactcattgc tatgaacatt aatctagctc tacctcatgc 120  
atagatcagt cactcgtaaa cctactgatg actctatcct tatgtatctc ctgcaaacct 180  
cttatagctt gtacaaaaca cccaagctt agaaggcatg gatgcaggct ccattgcagc 240  
tgatatgcct aggaacttgg ttaatggcct atggctatcc attaccaaag atgggtggct 300  
gcttacaagg ctatagaata aagacaggag gctccca 337

<210> 28209

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28209

tgnaaagagg aagtgtanaa gggtgaaatt tcctgctttt attcgttgac cacagagtgg 60  
tacttggaga tatgtcgcg gggtcaggag accttgggga cgtctggtgg ggtgctattg 120  
cccaaaacca agcttgacca atcccgacct aaccaggca tagtcagtca gtgagaacct 180  
gtgatgtacc taagcatgcy agctcctggc agtcaacaga taaaagggaac aaagaccaca 240  
aagcaaggaa ggcttgtgtg gtggctggcc agctgtggat cttgtgtgat atatgggtta 300  
tggcctctgg taatcgatta ccaaggatgg gtaatcgatt acaaggctta taaatgaaga 360  
caggaggcta agatggtctc tggtaatcga ttaccaaggt gtgtatcgat taccatgctt 420  
ga 422

<210> 28210

<211> 415

<212> DNA

<213> Glycine max

<400> 28210

tgtatagttc cccaatttat gggtattttt gagtattttt tgttaataaa tcatgattta 60  
tgtttaaagc tgtctctata acattacat tggatttaat gatgaaatct gtgtattttc 120  
aagtgaaaaa gagtctaagg tttgaaatgc agaaagtagc agttgggcta cttgcatata 180  
catcgtagcg gcgcttagtg cacaagatat ctggccgagc atcagcatca aacctgcgcy 240

ctaagcgcg gatcagtgcg caaagcgccg tatgtgcctt caaccaagct tacttcaaga 300  
 ctggcgctaa tcccaatttc acttactcgc actaagcacg gtgggtgggtgc taagcgcata 360  
 gttgctaatt ctgtaccttt tcaaagtcta ttttgagcag aattacgcac acacc 415

<210> 28211  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 28211

tgcatgggtg cgctccgtct ggcccgtgct tatacctgat gagagaagat catcaagttt 60  
 gagggctgtt accatggcca tgctgatcct tttcttgta aggcaggtag tggagttgcc 120  
 accttaggac ttcctgattc tcccgggtgc ccaaagctg ccacttttga aacccttaca 180  
 gccccctaca atgacaccga ggccattgag aaactcttcg aggccaacaa aggagaaatt 240  
 gccgcagttt tctcgaacc tggtgttgga aacgctgggtt tcattgttcc taagcctgat 300  
 tttcatagtt tcttgcgcaa gatcaccaag gagaacaata cccttcttgt gtttgatgaa 360  
 gtcatgactg gatttcgctc gtcatatgga ggtgctcaag atattttggc ataac 415

<210> 28212  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 28212

ctatatgagc ctctccatt cctatgccat agtaccctaa tatgccatag acttcgatga 60  
 ggaaaaatat ccaaggccta ctctctgcac atgtgcatac aggaaccatc actcgaccct 120  
 tactaaataa tctccaagcg tatcttctac accgagattg gatcgccctgc attactgtga 180  
 ccctataatc atattcctcc atgatcatat tcttgagaac atggttcctt gggagagact 240  
 agtcacactg gtgctattca 260

<210> 28213  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 28213

tgttcttgaa tcattctctc cttgaagtgg catcttcttt catctttctg tcttctccat 60  
tccgctgccca ttgaaattca agatgcaaag gacttcattg atgaagaaga tccaaggcct 120  
acaagctcca catggagata catcaacttt ttcataaaac ttttaagagat ttattcaagc 180  
tttccatagc caccaagaat agatcaattg catttctgta actctagata cattttccaa 240  
aatgaactca tectgttgat gaaattccat ttgagtggtg tcgtaacaat gatgttcttc 300  
atgtcatgtt cattgttttag atcttcatgt ctgcaacatt cttcttttgc tttagctgat 360  
gattatattt tatggctcga attctttctc ttcattctagc gacatgtcga cttcttca 418

<210> 28214  
<211> 197  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28214

ttgtttcccg cgagtcggtt aatgactttt atgatgcctc tcacctcgtg gaaggaccct 60  
aacactgagt cgccaagtat catagctgct ttcattgcat ccgtcggaga agaattggcg 120  
agagtccgan atccagagat ctttgatttg aagattcggg agaataattaa tccaagtttg 180  
cagagacgat ctcaaca 197

<210> 28215  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28215

tcctctcttt ctctcgaatt cttcttcttc cctaagttct ctccggagctc gactcttctt 60  
ccccgcgagt ccctaaagtt tttttcgcag gcctctcaca tcgtggaggt tccctagccc 120  
tcgaaagcta ggtatcattg gtgctttcat tgagcacgtg gttgaaagta tggcggaagg 180  
tacgagatcc aaagctcttt cgctcgaaaa aatgggtggaa ttatttgcca aatttgacgc 240  
aacggctcgag acgaagatgg agaccttacc ggaatgctta gctcatctcg aagcanacag 300  
gtataatccg tagcaagtgc aaccggagac gacttcgttt ccggcatcag gttcacacac 360  
agcaccgcat cgaatgaagc tcgatgtgtc gagattcgat ggtctgacgc cact 414



<210> 28216  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 28216

aaaacacatg gtactactac ccaattatta aataaccttc aaccactact aacggaaacc 60  
 gtgcccttta agagctacgt gagaaataac tagtagaagc gacatccatc tgagagtgtg 120  
 cgatgtatca cttcacgata gaagatgaga tctccttgta gaatgactgg catgataaag 180  
 acggagacat acgtgcattc atcgaaacat tgaatctgca gtagctgcgg aactgatcat 240  
 tcaagga 247

<210> 28217  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28217

ttagttacta tataataatt ctatacaact tattttatatt atacgagaaa taaaaaatatg 60  
 aaatataatg attgacacga tacaagata tgtaaaaacc agtggttcac cagaaaaaaa 120  
 aaaagtggta tatagattca tttattgtgt agtctttttt ttttactaca attaaggcgt 180  
 aatcttattg tatagggaaa cagaacttgg tgagggtgata accaaatgag tgtatacttt 240  
 gatgacttca tttttgaaaa ttagattatc aatgtagata tacaatacat gaaaaggacg 300  
 gagtataggt gtatttatct agacattgaa tctagtgggtg ctgcggangt tatcatt 357

<210> 28218  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 28218

ggacgtggat aggatatacg ctactgtctg cacactatgt ggtttatgcg tctacgccga 60  
 ccgccacacg tgactttgtc ctttgggtgt agcatctgac actgttgat atgttgacat 120  
 atacgtgca atcatctacc tattgogatg gtatacctct ttacataagt tccccacttg 180

acaacattaa taatctcttc atgacgtatg acgattccat ctggacgaat catccccaca 240  
 ttatatggat gaatacttc 259

<210> 28219  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 28219

tgaaggtaaa ccagatgtct aggttaacct ggtaacccat ctggccgtga ataaaaaatc 60  
 tgcacctgtc gccagactct gtggtttatg ctctctgcc gaccaccaca caaacctttg 120  
 cccttctgtg ctacaatctg aagcaattga atatcttgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc aacatcaaaa tcagccacaa cagaacaatt atgacctctc 240  
 cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg tgaatccttc 300  
 acaacaacag caacaacaac aataacctta ttttcagaat gctgctggcc caagcagacc 360  
 atacgttcct ccaccaatct agcaacaaca acaacaacac agccccaaat atagc 415

<210> 28220  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 28220

ctgccttgat cttcggccct cgacttgacc tggggactct gaactgacct atgcatgcaa 60  
 gcttctaact ttataattaa gaagcagcgt accatttgat agaccagtgg ctctctactt 120  
 tctgattggg gtgcagccca aacacgttat accagacaca ctctatgtat gaaatgtca 180  
 atacacatgg ctctcaatt gaactcaaat aattttatct cctctgcttg tgattaaact 240  
 atcaagtccc ctgagaggtt cctcacaac tcgcaggcat aactogogac ctttgcgatc 300  
 atatagtatg tgatgtgact acagggttca ctaatgacct aatctagtgc gacattatac 360  
 aatcgtagac ctcatgatct atacaccctt gttacatgga cagtccaata cg 412

<210> 28221  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 28221

ccccaggcc tacactccga agagaccgac agggccacac cttcctgaga caggggcaac 60  
ccaggaaaca tcagaacaga cagactcgat ggatgaaaag tacaaaacac atggctcctc 120  
agaaggactc aaaacaatgc tatctcggcg cgctagagat aaaactcatc agggcccctc 180  
agcggttccc atcacaataa tcagcgcgca agaactcgcc acccttaaag gatcatatag 240  
acgcgtgagt gcccaaacca tggcccccaa ctgagagcac accacaactc aacgcacaca 300  
gataccacaa gtgaaaacac a 321

<210> 28222

<211> 185

<212> DNA

<213> Glycine max

<400> 28222

tgaggtagct ccctgccttc cttactctca gcgtatagag tgactactgg aagagctccg 60  
atggcccttg actacgcca tctagtctac ctattcggac ttattacctc tatcattgcc 120  
cctatgcgtt acagatctta ttcagatgcg gcgttatgta cttcctatcc gaatttgccc 180  
caciaa 185

<210> 28223

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28223

agctnataag tgcgggttcg ggagacaaag gtcaagcgtt ctttatatgc gaagatgata 60  
ttccgagtag tttggatttg gtacgacat gctctcctga tttccagctg ggaaattggc 120  
gagtggagga acgccccggc atttacgcaa caagcataat gtaaaccctt acgggttttaa 180  
aagctctata gttgggccta ggcttttagag ttttcatttt gtttaaggctt tttgtctttt 240  
gtttttgaat ttataatata aggatctttc ttcattctgt cctgggtctc acccattctc 300  
attcatttgc atgtttactt cttttttctga tacggcagat ccgatgacga gtcccccgaa 360  
tgtactaata cctgtgaccc gtctatcaac ttcgagcaag aaatgatcat acggaagatg 420  
a 421

<210> 28224  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<400> 28224

ctaaacttcc gtaagcgatt taagctgctc ccattccaac actaaccagc tgaggatcaa 60  
 gcatcgatca aataactctt gacctacgac gaatgacctt ctctgatcta ctcacacaag 120  
 catgatctga acactaccct tgccctgagc ttgtatgctc ttgatcaaag attagttttc 180  
 tccgctactt cctaaaacgc ataagcgcg cggatctgga 219

<210> 28225  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28225

tgttaaanac ggaagacaat aaaaccgaaa atgaacgata tgatgacgaa agctaaaaaa 60  
 caagacagga attaaaagtc tcggattcga aaacttacct gttgaagaac gaagaacgaa 120  
 cgaagaacga atgaagaacg acgaaaaacc ttcacggatt cgctcacaga aacatctcgg 180  
 aaacgttacg gaagcacctc ggcttggtt ttcttcacgg aaacaatttt ttcaccctaa 240  
 atagctgaaa tgcatagcta ggcggatctg ggatccttac cctttcgctt atttatagga 300  
 aaaaggggga ggaggttgct gccagctcg cccaggcgag ctgcattgct tctctagaa 360  
 gcaaccctgg cttcaaaata ctctagaagg cccaaattca aaattcgaaa attgttattt 420

<210> 28226  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<400> 28226

agcgtctttc gtatcttgac actagctatc catctgacat tcttctgaga tcttaccttc 60  
 gtgaattttc caaccgtgaa tgactctaac accacctctg ccattcattg acttcatgcc 120  
 tgtcaccatc cgatgtccac atctttgatg ccttattccg acctcatctt ctgtgcagaa 180

tacacgtgct gctgaatta

199

<210> 28227  
<211> 567  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28227

agcgcgctat nnntttgatg accccgtctt ctacgtgcac ctatataaat aactcctgct 60  
ttcggagtgt tccaagctgc caagttcgac tctcttctt tegtctcatt cttcgttctg 120  
acettacaat tcatcacgtg gggcatttct ctttctgggtg tccacgcata ctctgctgat 180  
gttaccatg ccgtttgatc gatcagcttc tcacaagctt ctggctatca catgtgagct 240  
tgaatgagaa gcacacgcac ctctctgggt cttccaagta tctcataagc ttgggtctctc 300  
ataccagaa tatgcgtggt gctgtgtcac tcgcgtcttc acttacttta ctccatagtt 360  
cattcagaga tctcatctcc cgtagagtct gcactcagtc gattttccag tgcactgctc 420  
atgataacca agtgataatt ctgatacttg gggacaagat gtcagtacat tgatgtctac 480  
gacatcatcg ctttcacaac aatgcagatt ataatttgac agtgtgtaca tgcttataca 540  
agaagatacg acacgagaat tggttact 567

<210> 28228  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28228

nccctgggct gatgcgatgc ttctcgtggc gctatcagct ctgagctcgt gctgctctag 60  
agccgacctg ctacgcggct agcgtggtgt atgatggggt acccgccaca tgggatgatg 120  
ggaggtggga tgtcgatggt gcgcgcttct tgcacacatc tgctgatcac tcagtgtgct 180  
ccaattcccg cttggcgcac ttcaagttag ctcacgtgct ggcgcgga caagtatctc 240  
gatcgtgttc cggtcggtcc ctatcagatc ctacaagcta tcacgtcaat ctatctgctt 300  
cagactccca gcatcatgaa ctagccgatc caaccgttaa cgaggcggag gcagaaggct 360  
ctgccagaa cgcgaactcg ttcaccaacg tgtgttactc atatacccc ttaacattgg 420

ctctgtaacg atgtttgggc cgttgatcga ctogaatagt gctgtgtagg ct 472

<210> 28229  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 28229

tgtacttggg ttagacatga ttgatacatg atttgtgtct ttaggattc aatttgggca 60  
gaattggatg atggaaagtg tgatttcgaa aatctgcact ttatgcagaa ttttgctgtc 120  
aaataggtgc agccgaattt tggctttgtg cataaaatgt tgtgtatttg ctggttgtgg 180  
aaagagtagt acagattggg ttctggacgt tttctagtag atcccaacgg tcataatgta 240  
gatttatgtg ctagagactt tcagtaaaag tttcgagtgc atccaacgg taacgaattg 300  
gaacaaagag gaatgttgaa ggggtgtaat cgattaccaa ggggtgtaat cgattaccag 360  
gcttagaaat ggaactggaa tggtgaaggg gcctctggta atcattatc 409

<210> 28230  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 28230

tcagctctga gccggggcct ctaaggcacg tgctgcatgc cgctttatgc tcttcatgcg 60  
ctggaggatc aacaggagaa gctatatcat aatgcagatg atcgggagat attaggcagt 120  
gatggtgtta ctacacaatc accgaattga taggcttaa ctcgaccttc ctacactctg 180  
gagaaagaca gatgcggatg cctacttgga ctgtgagacg aatatagagc atgtcatctc 240  
atgccgctac tatgaggacg accgaagcgc gaagcatgcc gccacggagt tatccgacta 300  
tgctattgtg cggtggagca cgctacatat gagagag 337

<210> 28231  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 28231

ttgatgcaac atatggagag ttaatgaaac aacgatattt gcgtccatg agaggctgga 60

tcaaattggag aatagagatc ataatgaaga agaaaggagg agaagaggga atgatggtgt 120  
tcctagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180  
tgatccggag gcttacttgg agtgggagat gaaaatagag catgttttct catgccacaa 240  
ctatgaggag gaccagaatg tgaagcttgc cgccacggag ttttccgact atgctcttgt 300  
gtggtggaac aagctacaac aggagagagc aagaaatgaa gagccaatgg ttgatacatg 360  
gacggagatg aaaagatcat g 381

<210> 28232  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28232

agaactttnn tttgancctt gacacgctct gcttctacgt gacgcatatc agctctcgac 60  
ctggcgatcc tctgtagtac tatctgcacg cattctagct ttgtaactat acaccactag 120  
agcccgaatg ggcgaaacacc accaaaccta gatctgaggc gctatatattg gcagaaaata 180  
ttgaactcaa gctccgacta tgtgccttga atcatgtctt gcagagacat tatcgtgacc 240  
atatagctag aggtgtccta taggaccaag gatggatgaa cggaccttta accgatactg 300  
aggacaagat gcttgccgtc attgataagt gccatgataa actgaaacta gccgctagtc 360  
gctagcttgc gcttnaggat caccatgcct tgatatctgc ttagagggat actatggata 420  
aggggattga ctcatgttgc cgtgacgcta caacgtggac ggacctagta gctcttactt 480  
cgatcactg 489

<210> 28233  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 28233

taacaatcag tgtcatacta ttgatcaaaa caaagcttgt ataaatatgc aatactagac 60  
tcaaaatatg caacaaacac tatacctaaa tcagtgtcac agaaatcgga agaaaatatt 120  
ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180  
tatgggtaga ggtgtcatag aggagcaagt atggaggaag ggaccttggg ctgctgaaga 240

ggacaggttg cttgctgagt atgtcaggtt gcatggtgaa ggtagatgga actctgttgc 300  
 tacgcttgca agtaagaaac accaaacttt attcactggtt ttgtttctta atatatatga 360  
 ttggattttc acatttataa ctgacaatat agcataaaaa cactgatatt gttttcaact 420

<210> 28234  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<400> 28234  
 tccagagatc tttgatctga agattcgga gaagatgatt ccaagtttgc agagacgaac 60  
 tcaacaagac ttgcca 76

<210> 28235  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 28235  
 tcctctctat ctctcgaatt cttcttattc cctaagttct atcgtatctc gagtcttctt 60  
 ccacgcgagt ccctaaagtc tttttcgag gcctctcaca tcgtggaggt tccctagccc 120  
 tcgaaagcta agtatcattg gtgctttcat tgagcacgtg gatgaaagta tggcggaagg 180  
 tacgagatcc aaagctcttt cgtcggaaaa aatggtggaa ttatttgca aatttgcagc 240  
 aacggtcgag acgaagatgg agaccttacc ggaatgctta gctcatctcg aatcaaacag 300  
 gtataatccg tagcaagtgc aaccggagac gacttcgttt tctgcatcag gttcacacac 360  
 agcaccgcat tgaatgaatc tcgatgtgtc aagattcgat ggtgtgacgc cactgggttg 420

<210> 28236  
 <211> 221  
 <212> DNA  
 <213> Glycine max

<400> 28236  
 ctgtagacga tagtgaaaact cggagaccag tcgagagaca agcgtactca cataggttga 60  
 tacggggccgg tagaaataca agcttcctat ctatcaccct tctttatgct atatgacact 120  
 tggatatgcat gtgataaatg tcccttaaaa aagatacttc ttacataatg atatcataat 180



cagctgcctg tctatgagtg aaaacttggt atatgctttc g

221

<210> 28237

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28237

tggactataa gagttaaagt tgacagtaaa taatacttgt aacttggtga agttagtggg 60

acttgatgat ttgtcaagaa ctaaacaatg tttcagtggt tgatacgaac caatataaat 120

tcatgcatct tataatctcaa tataactttat gctaattgac ttaggggttg aatttgattt 180

tgttggtgaaa agaaatattt ttacaaaaat ctattattat caactgocct tctatttggt 240

aaaacttggt atatgctttc aaagctttat tggacgataa ctttgtcttg tgaaaaaaga 300

tttaaaaaat ttctaaaatc acaactcaat cctctttctt gtaatacttg tctttacaca 360

aatgaatttg accatcatta ataagatgct ntatgtgcat gacatcaaca ttaatat 417

<210> 28238

<211> 411

<212> DNA

<213> Glycine max

<400> 28238

cgcttctaca gaaatgtagt tgctgtaaca ttatttcctt ataacagtaa aagtactgtc 60

gactgaaaca ataaagatct agccatattc agcaaatgct gatgctttct atccaccaca 120

aaatactgca gtggtctata gggacaactg aattgatgca gggtagcctg ctgttgaggaga 180

aatgtacgca atgccaattc aagagcatta acatatctga gctttttaat ttgaaatcca 240

aattgagtct ttattaatgc aaaaaaatcc ttaaccttat gagttgcttc actcttagta 300

tggagcaggt aaatccatgt taacctacta tagtcatcca caatgggtgag aacatagtgc 360

attccttgac gtgtgactgt atgataagga ccccatactc cacatgaatg a 411

<210> 28239

<211> 313

<212> DNA

<213> Glycine max

<400> 28239

tgaagaggta aatgatgata ctcaggctga ggtgtctctc atccttgga tatagattgt 60  
caaagggcgg agagatgtgg tcccatgcga aacgatccat cgtgctgtca tgaatatctt 120  
ttcatgctga tagtcagctc gccacatcg agcttcctgc atctcatttc tgtgaggaac 180  
cttgaccata gcaccgtcct tcctcctgga ttatcgtctt acgtatgtga ggctcactta 240  
agtttgagat aggcgttgat gactgatact cttgacagggc aaaagagtga gacactctgc 300  
aatgacaagt gat 313

<210> 28240

<211> 389

<212> DNA

<213> Glycine max

<400> 28240

gacgcttagg gatggaatac ttacttggtg gtgatgaaca aatgtctaaa cggaatcaaa 60  
taatgcgaaa aatgatgacc ctagggtgc aaactccgca atcccggtggg tatggctttt 120  
gaaaggggga aaagaagttt ttgaatgcaa aaacgtcccc cctttcgtca tctttatatt 180  
ttggtgcaag ggtggctctc ccaggcgagc taacctgcat tttttttttt gagaggaaca 240  
ttatccatgc ccccttcttc ctcatgggtc agcgtcttgc ttaacttgaa cttacttaag 300  
tttgagttag gcattgatta cttatttctt aaacagacaa aaagtaaaag agaactgcta 360  
atacaaagga ttcggagctg tcttgcagc 389

<210> 28241

<211> 126

<212> DNA

<213> Glycine max

<400> 28241

tgcgtgtgtt attatctaaa ctatggagcc tgcacacaac tggtgtccat tgccatcccc 60  
tgacactgca tggatgaacac tcaccattga gagatctcat aggagctcta tgatccagcc 120  
tacgta 126

<210> 28242

<211> 391

<212> DNA

<213> Glycine max

<400> 28242

tctaataccaa ggcaattctt ggtggtgaag ctcccttcttc tttggctaata tccctagggg 60  
atggtgcctc ccctttcttc ttttccttgg ccttccgttg aatctccttg gggaaaaata 120  
ccatggagga ctaatgaact caaaaacagc ctcatagaag ctcaacaagca agcttccatc 180  
atgttgagtg gtgcaccctt cttttgtaaa atcactcatg caccoaacat cttcatgatt 240  
tgtgtacata gggactcatt aggtagggtt gttcttattt tttgtttcaa taaaaactta 300  
ggtgctcata tgggacacct tatgtttgtc ataatatctt gtaggaataa tcaacatgaa 360  
aataaagaaa aaggtatggt tattcaatta c 391

<210> 28243

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28243

ttgcctgact ctttggcctc tgacctgacc cgggatcctg tgagtcgtcc agctagcctg 60  
cacgcttgta ccaattagtt ctgctatact cacttatggg aacgggggatc ttattgcgaa 120  
tggtaatggc gcagatggcc cgggattccg ttcttaatgt gcgcacgtta tcatgcattc 180  
aatcacggaa cacctgagaa ctcaactgac tgggtgctatg tcgaataaccg gcctgtgaag 240  
catagagata tctacacgtt agttctaact cctattttgtg gatttgagga gtccatgaag 300  
cgcgcacatt tacaacgggg gaccacggat ttaatggcat ggtggtactg aataactatc 360  
agtgtgtatg gaagaagtgg ctgacatttc gtctccagtg gtctatctat gtatgaanca 420  
acgatgccta tgtggactgt gtgtatgata ttc 453

<210> 28244

<211> 408

<212> DNA

<213> Glycine max

<400> 28244

aatatatttat ttatatgtaa gcagattatt taaaaaatct gtaaaaaata atataaaatt 60  
acggatattt ttatcattcg ttaatcaacg caaataaaaa aaattacagt tattaatacg 120

tggctctatgg tttggattca cttacgggag aataaaatac taaattaatt tataaaaattt 180  
 aaaataccaa aatgtaatca ttgaatatat aaacattatt ttaattttta tttgtgtatt 240  
 tttttgttct atcattttgtg tattttttaa acgtaaataa ccgttattta attacgtgtc 300  
 aataactaaa taactataag tttctattta aaaattaaaa taatattgat aatttaataa 360  
 tctaaattaa taattaagta tcgatatact tttcaaacta tataatat 408

<210> 28245  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28245

ntgaacctgg ctcttatngc cttatagagc tctgnaccct gtcgacctgt gcagttcaga 60  
 ctgcggtgcct gtcggccttg ctgccgtgtc tactactgat atagctctag caccaagact 120  
 catgttgatg aagcgctcat ccgtgatctg atccacacaa cctctatgaa ctacatattg 180  
 ctctacttgg gtcacacatg tctgttgatg cgtacgcac ggacaatgag gcatagaacc 240  
 taatcactaa tagatcatta gagtcatcta acggtggcac aactattgtc tgttgagcac 300  
 cgtgtcgtaa catggcccta atgtcctttg taccagcata acatgtgatt actggtgaac 360  
 acctaggcca taggttgcca cggttgacatt atgatggaac acgactgtat ttcaacagat 420  
 cctaggtgaa gatttcatac caccgactat cgaagctcga tgaaggc 467

<210> 28246  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 28246

aagcttgtat agttggcaat tcaaacaagg tgtctacgtc aatgttcccc cctataqtca 60  
 tattctctag tctcaaacca taaaatgttt ggtcagtgtg gttgcataac aaacctctcc 120  
 aactacataa actagactcg ttcacccagt tgtttaaggc attgttattg gacaaggaag 180  
 ctttgaacct catcaaaatt tgagcatatg tgtctcccaa caatggcaca aaacatatat 240  
 tggccaacac caacagcata agaaggcaat aatatgctct tctaagagcc atagtaagta 300

gatcacaggt tgaaccaaaa tgggatattg gttgacgaga aaggaaataa tagaggggaat 360  
aatgaaacta atgaagaaca aagaactatc gagaaactaa ttaagaacaa gaactatcga 420  
gagtttgaaa g 431

<210> 28247  
<211> 121  
<212> DNA  
<213> Glycine max

<400> 28247

catgcacgct tacatcattg tgcaaaactta gcacacaaac tgttggtagg tgcttcgtac 60  
actcgccatt gattatgtgc atcacctaca ttatggaagt tgaaagcaca ttggtgaaac 120  
a 121

<210> 28248  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 28248

tatattatta tgctagataa caattgaaca tatacaagat tccattgtca aaactttgcg 60  
ggcagaaagt tggttgttac aagggttcaat gcaagtgaag aggttaatcc cccaaattat 120  
ggaatttgaa agtacttttg tgaaacttaa tgttgtgaag ttagtaagaa agtgggggaa 180  
aatagacacc atacgtaaac aacgggtcaaa gctgcacctc ataaagcata caatatacaa 240  
cataattaaa agttttaact cttttttatg atccataata cctaagggtg gatcttcaat 300  
tatatatgtt tgaatagctc taaataaagt gcattatttg gtcttataaa tagtagcatt 360  
tgcagcaagg atgctcggcc acatgaacat catttgtagg atgattacta ggcta 415

<210> 28249  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 28249

tcttgtatgc aaacttgaca aatgccctct tactcttcta catgacaagc ctatcttctt 60  
ggtgaactca cacgctgact tattctatga ttgactctac cctatcaaga gtgtcgttgg 120

aacacttatg aggtccatac ctgtgcgcga atgggtgtaca gcctgattat gtcctatggc 180  
 ggactcaaac atatgaacct ctacatactt aacatgagct gtgagacca ggaagtgtg 240  
 atgaccttct ctactcttta cgctgg 266

<210> 28250  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28250

tgagacttaa ttgcgttggt cttcccataa gcagtagtca tcagtgcact ctcacccatc 60  
 tccattacaa gcctttcttc ttctgaaca cacatgggtca ttaattcatt gatagactat 120  
 ttatctttat gtgtgttgta ggaaatctta aatggcccat attcatgagg aaggggtgtc 180  
 aaaatgaaat gcactatgaa ggactcagac atatcaacct ctagtctctt aagttgagct 240  
 gaaatatctc gcattttcat gatgtactca cgcacacctt tcacactggg gagccgaaga 300  
 gaagaanact tcatgatcaa ggtgcttgct aaagtcttat ctgaagtgat gaactgggtc 360  
 tcaatggcct taagcaagtc tcggaccttt tcatgctgtc aac 403

<210> 28251  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <400> 28251

ttggtctctg cgctacaga taaccacgat gggttcacca ccacgcgct aaaagtggta 60  
 caggacgacc tgcttatcga tactoctgaa gtgggcgaac ttgcattatc atctctcatg 120  
 aaccagcgat gtgagcgcat aattgttaaa cttgctactt tcattgtagc tatacctatt 180  
 gatatccaaa cacgtgacct acacatatga tgctaagcac agataagtca gatcgtaggg 240  
 tacttctact aggatactag gtgctgcttt gtggacgaga ctacaactca ggggtatacct 300  
 gctaccgatg ctgagagaca tattacatct ctgcgatgtc catccac 347

<210> 28252  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28252

tgttgaatta taacctccat ctacctttct ttaggttggt tgagagtgtt tacgccccgg 60  
 tgttacttgt taatatggat gcgtagatct aaccggcaag tgtaccgagt cgtgcaagta 120  
 ataataaaac ggtaagaact gagtatcgaa ctacaggaac ttgtctcatt tggtaaagca 180  
 tcattcggta agcagccatg tgtgcaaaga attgattatc atgagttaaa aataattgtg 240  
 atttctattc taatcaaaat agtaaattgt agcaagtggg tgtgaaaaca gatatgtaaa 300  
 agcgttgggt cctcctacta aaatacttga tgcaattaaa tgtatntctc tattttaagg 360  
 ttattcctgc gttntatgct gagagctaaa ataccaaaca ccgtgtctcg tgagt 415

<210> 28253  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 28253

atatgtagtg ggccggctga catgatacat tatcagcagc caccatgacg acacgcctgg 60  
 cggcacatgt atgatcattc agttacgacc ctggaaaaac tctaattttg gttgcaacat 120  
 agcatgatcc tggcgccgcc atatgaccgt gcattccatg tgagggggga ccccttgtga 180  
 tagaacaatc 190

<210> 28254  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28254

taagatggta cagggtagag ttttcccaat aattgcttgt tgatagcttt agttttctgt 60  
 tactcagttt ggtcatgttt tcaaattaaa aaaaagaaga gaattttgga aacatttatg 120  
 ttgtttgctg ccttatattc tatattatca gtttaaaccg tgacgacttg acttggtgga 180  
 catatatggg tattttgttt tgaccctgat agatctctaa ttttggttgc aacatattaa 240  
 attccttaag cagtaaattg aatgttcaat tcatgtgatg ggtgaagtct tatgttgatc 300  
 tatatagctt cgtcttttac aatgaatgca tgaaggattt atatgcctgc tctgtggttg 360

cagattcatt gagattcaca tcagcccttt cagtcgcact tgagttngtt ttctagtcac 420

<210> 28255  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28255

tctcaaggaa gttntctcaa gaaagcttct caaggaagtc tacctagtct ataaatagaa 60  
 gtatgtgtaa cacttggtgt aactttgatg aatgagagtc ttgtgagaca tacttcaaag 120  
 ttacacttct ctccctcttt tattccttca atttcgtgct ccccccctctc tctttctctc 180  
 cctctttctt ttccctccatt gaagcatctt tccaagcttc ttatccaagg ctcatcttgg 240  
 tggatgaagct ccttcttcca tggcttattc cctagtggat ggtgcctcct ctacactatt 300  
 ctcccttgct ttccgctgca tctccatggt ggaaaatcac cattaaagga ccttattgaa 360  
 gctcaaagat ccagcctcca tagaagcccc acaagcaagc ttcatcaaga tccttataga 420  
 ca 422

<210> 28256  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 28256

tggcgcctac tataacctat tctcctatga cattctctgc acacatatgg tgatgaggca 60  
 cctgtatggg tcttcattgc ctctctataa gccactcgac acacaaacct gacaagcgtg 120  
 cttccatcca ttgaggactt atcctctaag tcagcgtgtg cagattatcc ttttacatcg 180  
 tccctgtcct ttacacgtgt gatcccataa cgatttatgt gagtgctcga acacatactt 240  
 ctatctcttt cgatagacat atcatcgtga tttgttggtt 280

<210> 28257  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 28257



tcttatccaa ggttcatctt ggtggtgaag ctcttcttc catggtttat tccctagtgg 60  
atggcgctc ctctcacctc ttctccttg tcttcgctg catctccatg gtggaaaatc 120  
accattaaag gacctattg aagctcaaag atccagctc catagaagcc acacaagcaa 180  
gcttccatca gttgggaatt ttgaaaatat gtcggagctg agagaaaaac cctttttatc 240  
gcaacttttt tttccccgta gaaaccata actatatcag taaaactacg atcacagact 300  
cgtcaaccgt tggattgtcg aaaaattgtg atatgtggtt tgagattcaa ttccgcacac 360  
cttcatcggt gagattcgcg aaataatggt catggagaga gaaaatg 407

<210> 28258  
<211> 166  
<212> DNA  
<213> Glycine max

<400> 28258

aagagatgga ctgacacctt ggcgtctgcg tattactcgc ccatgatgag aatgtacact 60  
ctgagatgcc cctttggaca tgccccacgt atgtgcttat acatgagcgg gacttgctcc 120  
ttcacagga tgaccacgct actctcgata gacatgccat acaaac 166

<210> 28259  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28259

tccagattgg tataccatgc tacagctgcc ccgtgccaag ctgtcttgaa agaaatggac 60  
taacaacttt tcgtctgcag aatacacccc catcttccga caatacaccc ggagatgccc 120  
ctttggacat gtcgtccctt tgtacttata aaagtctggt actttgaact tgggagggat 180  
gacgatgttg ggtacaagac ataaatctgc caaatccgag aatgggtaat tgccgagggc 240  
ctcgactgcc ctcaacctct cttcaagcac ctcaatcttt cccttatctt ccgtgaaggg 300  
aacaaattct ttacgggtg tgggtgaggg cgggatatgg cggactatgt tcggttgggg 360  
tatttcatgc gngnacggat ctttgaggtg gagcangggg caagatgggt atc 413

<210> 28260  
<211> 198

<212> DNA  
<213> Glycine max

<400> 28260

tgttgtacat accatggacg gggaatgggg actgccccga ttaatgaccc tcgccttcgc 60  
ggtggcaaac accttctacg accttgacga cattcagggg ctatggatct attgtcggcc 120  
tatgatagac ttgatggccc gcataattag caatcatcac gaaactttga tgcgttagtg 180  
aaccttgact acatatga 198

<210> 28261  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 28261

tgtctcagcg tctatgcgag acagaaacca tcatgttatc tatcatcgcc aagtaccaag 60  
aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gccaagtat 120  
atgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180  
ggatggatcg gtttgcctct accttgaacg ggagtcaaga acttgccccga ttattagcca 240  
aggccaaggc gatggcagac acctactccg cctcgaaga gattcatggg cttctcggct 300  
attgtcagca tatgatagac ttaatgaccc acataattag aaatcgttag gaaacttgta 360  
tgggtctctca gaccttgact agatatgatt tctttcttta aata 404

<210> 28262  
<211> 209  
<212> DNA  
<213> Glycine max

<400> 28262

ctatagagac taactcgctt acatgcactc tagatatgaa actatgacgc cttggactgc 60  
ctaattactc agatagccct gactcttgaa tctacgcctg atgctacagg atgtgggtcta 120  
tggactatta cagatcaaca taccactttt tgtgacttcc tgcagcaata cggcgctaac 180  
gagcggcctg aagctcttgt tgccgacat 209

<210> 28263  
<211> 515

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28263

cggggatgan ccattgtact tcaggcaatt cagctcgtac ccgngagtct tctagatcac 60  
ctgcagcatt ccagcctggg cattttaatt ttccttggtg gttaaaagaa tatgacctat 120  
tatgatgtca tgggtgcttca aatgaaaaca acagggtata nggggtaaga tggccatana 180  
agaacttgag gtggagttgg agtgcattgg caactgtttg atccacacaa gaagttttgt 240  
ttcttaaaca ttttaaccaa atagaaaaac tactttggga aatgggagcc cccacatacc 300  
aatgacgaac anattgacta gctaactagc tcanaacacc tttatctctt aattaaaatt 360  
acctagatnn gtaatcattc ttttattctt tgattgtttt caaatacact acattgtgaa 420  
tgttgaattt atttgaacat tgtctattcc acctgagtac ttagattaca gccaatggac 480  
ataagttgga cttaaactaa acaattcatt tcttn 515

<210> 28264  
<211> 183  
<212> DNA  
<213> Glycine max

<400> 28264

ctgaaaactc aattggggag gaatgtggca atattgtatg gatatgtatc tcacacacac 60  
aagaatctag ttcaatagta ataataaaat caaaaatcag tcattttctt ggttggtgac 120  
tcatgtggac ttgagccttg atctcttata atggagtctt gctttttaat tcatggcagc 180  
aat 183

<210> 28265  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28265

gcgaatgagn catgnatagc cgggcnaac agtcccgcga tgcttaagtc aactgccgga 60  
tgcagcctgg attatttaag ttctttcagg ggagnggnag aatggaaatt cctctttttc 120  
cgtaaaagca tgcctaaaat gcgttcatac ttcaagtagg ctgtgttttc tatgaacgca 180

taagtggggc gctctaaaaa atagatactg tggaccctgc agcattaata gattggagca 240  
tctgacgggtg cataaactat ctgatgaata tcttgtgggc ttgggtgctt gctctgagct 300  
acatcacctt catttatgct cttgctctcn ggactatatg ctatcgttcc tgagtttttg 360  
ttttgaccga gccatttgat gactaattcg cattaacggt tctaaaatgc acatgctgtg 420  
ttgccgtggt gagccaaatc atctgtcaaa atagccgggg 460

<210> 28266  
<211> 206  
<212> DNA  
<213> Glycine max

<400> 28266

tcggcactca tccacaacta tgacctgagc cgatcctatg agatattgag ggatgctggg 60  
tggtttccgg tcaaacgtta tttcgaatgg agagatacta gttgcgaagt gaattgaggt 120  
gttgtaagac attctgcca catcatgaaa tttccccaag tggttggttt cgagtgaaca 180  
taagcgcaga agtactgctt cactac 206

<210> 28267  
<211> 231  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28267

gcgatgttgt atgctaaagt gctgaggaaa ctgtttagat gaaatatgag ttaacctagg 60  
ttggaagtga gaatgggtgt atgaatggaa gagagtgatg ctctgagggt gaacgttagt 120  
ctgaattctg tggatatgga ggttaagtga gtaatcctac ctgaaatgtc gttangactt 180  
tgaaaacttg gctggctaag agacaaaatg accaagtgac ctgagccttt t 231

<210> 28268  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 28268

gcccgttgca ctcgagatt gcgccatctt ccgtgctcac aagatatgtc atactgactt 60

ttgagtcacg ctaacgggcg gaaatactcg agtgggttatc cgtataaatt gtttgctgtc 120  
 tgtaagatga aaagcctgat aacacgcaga gtctaacgtc gtcttcagcg cccttcgtta 180  
 atcgcgggccg acatgcccgt tgacacgcgg agatttacgt catcttcgcg gtcacaaga 240  
 tctgtcatac tgacttttga gtcacgtga cgggcggaat taccgaggt gggtatccgt 300  
 ataaacattt tgctgtct 318

<210> 28269  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28269

agccttggtg attatgtgaa caaaaaaga acttgataa tgttgtagtt gttcactcgc 60  
 taagcgcaac actngcgcta agcactaagt cttcatgcgc taagcaggcc cttgctcgcg 120  
 ctaagcgcta ggacccttga gtattggcta gatggttagca ctaagcgcg cttcattgcgc 180  
 taagctcaat tacctctgtg aaatctgaag ttctcacatt gcgcttagcg aggtgatgcg 240  
 ctaagcgcaa ttccctcttt gttttggaat tctttggaat aacgctaagt gccagataag 300  
 cgct 304

<210> 28270  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28270

ttatgaccct nggcttgccc aggctagcct ctggcttgctc tgtgtcccca aagagcttan 60  
 ggggtgaagta accagctcac ctgggcgacc aagggttactt catgttgaag caacagctcg 120  
 cctaggcgag ctacagataa atcaagtccc ctcatccta taaataggtg tcaggagggc 180  
 tgaagaaagg gttcaacttt caaacataaa gatttnttta gtgaaatttc aagaaaagaa 240  
 gaagaaagaa gagaataacg atgccgatgc gctaccgaat tggaccataa tcgacttcta 300  
 catcggtcat cgttcatcgt ttagtggtct tcggtcgta ttcgggttagt atttatttta 360  
 agtatttgaa tacaatcta 379

<210> 28271  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 28271

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tttgatcgtc tcgatatata atgcgcctga gtcgcacatc cgagttaaaa gttatgaacc 60
tttgaatatc tcgagagctt ccattgttca atttcgagcg tctcaatata ttatgcgcct 120
gaatctgacc tccgtgtgga aagttatgac catttgaatt tctcgacagc ttccattggt 180
caatttcgag cgtctcgata tattatgtgc ctgaatcgga ccttcgagtg aaaagttatg 240
adcatgtgaa tttctcgaga gcttccgttg ttcaatttcg gcgtctcgat atattatgtg 300
ctgatcggac atccagtga agtat 325

```

<210> 28272  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28272

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actcggaggc ctatttggtt cntatatatc gaaacgcttg agattgagca acggaagctc 60
tcgtgaaatc caaatggtca taactttcaa ctccgaggtc cgattcaggc gcttaatata 120
tcgagatgct cgaaattgaa caacggaagc tctcgagata ttcaaatgat cataactntt 180
ctcacgtagg ttagacttac gcgcataata tatcgagacg ctcgatattg aacaacggaa 240
gctctcgaaa attcacatgg tcataacctt tcaactcgag gtccgattca tgcgcataat 300
atatcaa 307

```

<210> 28273  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 28273

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agctttttta ttttacaaga ttaagctctg atccacttgt ttacaagtgg cctcacaatc 60
ttaagaaaga gtggttgaat caagatatta caaactatct tccaattaa gattctactt 120
tgatcttaat gcacgttcca agttccctta atgacgaatt tcttaatgat gattcacatt 180

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aaacaatttg agtgtaaatt taaaacaaca atagataaaa gaggtaagg gaagagaaag 240  
t 241

<210> 28274  
<211> 284  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28274

tccaagagcc tacaacatga cttacctcaa attctattac agttaaactt gtacgtggtg 60  
atgtactatn tttcctacga gattttttgt taaatagggt ttaacgaggc acacccaaat 120  
tttacattga ataaagtact atttttatga gttttattag ctttatagat ctgagtagac 180  
caattgggtt ctctgactaa aactcaatg ctagggataa ataagaccga ataaatatgt 240  
gacttactaa aggactgaca cccacagtca gccaaagata gatc 284

<210> 28275  
<211> 265  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28275

agcttgagag ttatatgtcc cttgccttat aattaagagc aacagcaaca acaaaatatg 60  
aacaattatt agatagatgt gtacctagtg aggcgtgcan ataagtacga tgtatatatt 120  
gtgttgggag caattccaaa tccataccta tcttgttgtt actatctagt ggaaaggata 180  
gcacgaggga taaaactat agtatattac cgagtataaa gggcattggt ttggtctaaa 240  
ttcaagttct tctccacttg gcaat 265

<210> 28276  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28276

actcgaagat tacacgggta tcttctagcc aatatatttc tttgtgatta tatatgngga 60

aatgagagat agatntagta gttggttgat gaacgaggta atattatgaa ttgagttatt 120  
ctccaccatt tgtaattata tgggtaaatt ataaacttaa tgatgattta ttttagtaat 180  
tagaaacaca attaattagc aaaacgtgtg agaaagtcac gtgtgaactt tccttttttt 240  
aattttattct cctatttata tactatagat atagatataa atgttataag tataacaataa 300  
gattatctga ctgtacagta aaaaacagat tatttcgatt cttttgttcg gctttaattt 360  
agttgaatct agattttttt gaatcataat agtgtttatg ttntgaaatg gttctaacac 420  
cctataaata actattgcct ctaaatttg aactaaacta aatc 464

<210> 28277  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 28277  
agctttatat ttgctggttt cagacatgaa ggccaagtcg ccgctatatg cgacgatgat 60  
tccacgacga gatcggattt ggtacggcca tgtcctcctg cgttcgcgact atgagattgg 120  
cgagtggagg aacgcccata cgtctacgcg ataagcataa tgtacccctt tgtagcttta 180  
gaactctacg gttgggccta cgcttttagag tttccttttg cttacgcatg atgtgctctg 240  
ttcttgaagc tataatataa agatctttct tcatatattc ctgcacctct acacattctc 300  
attcctctgc atgtgtatgt ctttacgca 329

<210> 28278  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 28278  
tttcttgacc ttctcctac gagagaccat cttcaactca atctgtgcct gtaaataatt 60  
ataattcatc acacaaattc aaattgcata taaaattaaa atacgttata attaaagata 120  
taactacctc tcttgccac actgtggcta ccacatgact aacatatgat gtcaacacta 180  
atgtatcttg aggcccacct ggaagacct atgaatcacc acctacatcc tttgtaattg 240  
gatcatgacg tccctcatga gtctcatcaa cagcatcatg gatatgcgca ctatcctcga 300  
caat 304



<210> 28279  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 28279

agcttgtttg tattattggg tacccgacat atgtggtact aggtggagat cgggcgatgg 60  
 tgcaaatcaa ctctcccaca tccacaaatc aaacatgaac ccaccatccc cagatgccca 120  
 ccttcaacta agctcacgta cccgcatgta gcgcttattc tcattcctct cggcgtcggg 180  
 tcctcatcaa cctctctaag ctttcacaat atccaaacat cattaactac cctaaaccaa 240  
 gaaaaaaggg cacaggcaga taactctgcc cataacacat tccaatacca cagctttccc 300  
 tactcaaata ccccagttac attctcttc 329

<210> 28280  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<400> 28280

aactcaagct tcaggctgct caattgctcc atgttgctgc atggaatgtc aaatgtctgt 60  
 aacgtggtca gtaaagagg acaaaccaca gacccttgca acagggtacaa atttctgggt 120  
 caaggccagc tgggttacca agttaaccaa tgcattcagt tttccttcaa gcttcttagt 180  
 ttcagatgat gcagctgagt ttgtagctac ctcatgcact cctctaata ga ctatagcatc 240  
 atttctggcg ctaaattgct gggagttgga agccatcttc tcaattatat ctctggcttc 300  
 agtaggagtc atgtctcaa gggctccacc actagcagca tctatcatac ttcgctccat 360  
 attactgagt ccttcataaa aatattggag aacatcctgc tgcgaatctg atgggtgagg 420  
 cacttgaca tagtttctaa atctctccaa aactataacg gctctctcac tgatt 475

<210> 28281  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28281

agcttgtttt ggggcttcta tggaggtggt atctgtgagc ttcaatgggg tcctttaatg 60

gtgtgatttt ccaccatgga gatgcagtg aagacaaagg aaaagacgtg agaggaggcg 120  
 ccattccatta aggaataagc catagaagaa ggagcttcac caccaagatg agccttggat 180  
 aagaagctng gagaggatgc ttcaatggag gaaaagaaag agggagaga 229

<210> 28282  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 28282

ccattctgac ttgctccaac tcaacattaa acattaataa cagttcttca tctttttcct 60  
 tatctaattc agcataattg gcatttttct cccaatcaag aactcatat tgatagtgtc 120  
 ctaacttggtg acattcgaaa cattcaatag cagctgtatt gaaggattgt cttcatcttt 180  
 ctctacctcg acctcctctg gatgagtcgt tacctctacc tctacctgct ttgtcttcgt 240  
 gggagatctt cagaacctgc tcgatcttct tttccacgac ttctcatcc 289

<210> 28283  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28283

atggcgaaatg tgcaccgact acactaatct gaacagggca taccacacaa gacgtgtaac 60  
 cctctcccca acatcaatan ggtgggtcgat gaagcgtccg aattcaagtg ctaaccttct 120  
 tggatgccta ctctggatac aactagatta gaatgcatcc tctagatgag gagaanatga 180  
 aattcataac taanaatgtc aacttttgtt acaaggtcat accattcggc ctaaaaaatg 240  
 caagcgcgac attccaatga ccaatggacc gagtcttcaa caacagatcg gacgaaatgt 300  
 caggtatata tggatgaca 319

<210> 28284  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28284

tgaaggagat cccatgggta acttgtccag aatcatgtgt tnnattgaaa tangttntng 60  
 gncaaacttg agggacacat ttctaacaca gatcaatcaa acttcacata acctaacatc 120  
 cacaccaagc aatcgcacaa agataattca cacaacactt caactaatcc aaattaatca 180  
 aataatcaaa taatacaaga aatacatcaa acatctatct ttagttatca aaacttcagg 240  
 gcattacata ggggatgttg tagagaatgg aaatcacatt ccatataatg gtgagttgaa 300  
 caagatcccc gaaagccaaa ggatagaaga ganaaaacaa agatgtntgc tcaactccaa 360  
 agcccgtaac actctgttgt ggctctctct gaggaagnta cacccaagtc acactccaga 420  
 gtgccaacag acggggaacc tatgaatggg 450

<210> 28285  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 28285  
 ttcttgtgtt ttgtaatgga ctcttctatt gcttgagtct cacaggttgg ctaggggtgt 60  
 ttaactcatc tgaacgcact tggagtgttc tttcagtacc tccaccaag tgcccagaga 120  
 atttttttgc caaaaattgg tggaaggga aattcatgac agagcatgag ggagatataa 180  
 tagtaattta tacatgttct agtgaaaatc ccattatctt taagctagat cagatgttaa 240  
 tggaatggga agagatgaca aactggatg gagtaactct ttttgctagt ttcttgtctt 300  
 ctcatgcaag gattgatctc cccggaataa tgagaaatag tgtctacttc tctaaagttc 360  
 gtctttatgg aaagcgctgc atatcattct ctcttgatga ctgtagatac tatcctcgta 420  
 agcagtggca tgactg 436

<210> 28286  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28286

ctttaagctg gtttactaaa tcataaatgt tcagtataac tagttgttaa agcagttaan 60  
 aaatataatg acatattttac aaaggatgtt aaggaaacta aataaatatt ttaaggataa 120

aaaaatatat ataaaaacca taagctagtg ttttaaaaaa tggtacttga aatagcattt 180  
 taagaaacaa tagaaggtag ttaaaaaagt ttgtttacga aaaagtcaaa caagttttatt 240  
 aactagtaaa aaaaactaga agctaattgga aatgactgac ctaacataac ctaaatacaaa 300  
 acttttgaat gtttcatcaa gaggggggaaa ataggggtgaa tggaataaaa atagatatga 360  
 aatacagtggt aaatgagaaa gtgttgaatg aaagagagaa caagagaana gattttntat 420  
 ccatacgaat canacaaata tcaanaaatc tacaataact tatgcatatt g 471

<210> 28287  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28287

agtggaaaact gaactacgac nnatcgccaa ctgagctcgt acccggaat ctctaagtcc 60  
 accgcagcat gcagcctggt ttatgcttcc ttctataaaa cccatttaac ttttgctggt 120  
 aaaaaaaata caatcaaaac tttttctttt tcatcttgga ccagtatttt gattggtaga 180  
 ataaggaaac acttctaaca ctggattatg gacaaaataa catattggag ctatcagcat 240  
 aggctattca aaagatacta tattgatcta atcgcgtcac aaacagggtc attcagtcac 300  
 aactagacat caatgaatct cccaacgagg atttacaatt aagctagata acagttacat 360  
 catatgtacg tattcatana cagcagcaga attaatttaa aactttaatt acttggatgc 420  
 actcacatcg agagaaagaa ataagtatta tcgattaagg aaagctgaca accaaagtcc 480  
 atacacaaat actattgaat gatgccca tgaan 515

<210> 28288  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28288

tagatttttaa tgcagatagt aacccttttt acaattgaga tgaagaaagg acacacatta 60  
 agataacacc tatgcaatct aagattcaaa taagatacct ttttattact cgttcttaca 120  
 aatcaattaa cactactaaac agttgatgtn cgatcaaaaa tcaagggtgca taatattacc 180

acataatata acacctaatac taagcattct taattttctaa tctatatgtc ata 233

<210> 28289  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28289

ttctggcctc ggttcgaatt aaaggcggct tgaacaaccg cttccgcttc cctaactgta 60  
cttgaggcng ntgccgtggc tttatcctct atagatttct ggagttttta catgaccttc 120  
gagatggaag ctgatcgagg ccgtacccga atcaaataaa catgaaaatg cagaattaag 180  
aagtgatcct atgttcgttc caccgaacag tgacaagcca aatgggcata atatacttgc 240  
agtaacgatg ggggggggtt gggtgtttgg tattaagag cagaaacaat aaatggaata 300  
cgaaactact aatataaaaa cgggttgctc ctctgatcag aaccatctct tatectggta 360  
tggagaatcg tcctaacggc accattaatc acct 394

<210> 28290  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28290

catctaattg tcgtatcctt catcgggggt caattgtact ctaaagaatt aattgcattt 60  
gatcaacta agatagcttt cgtcaattct aaatttctct aatattaaaa ttgggctttg 120  
aataaagaga gcaatcattg atagtacact tagtgtaaga tttaattgtct catgtgagtg 180  
gcatgtgggt tattaaggat taataattaa ataattaatt gttatggact aagttgtaaa 240  
tgggtcatgg gcttaagtgg agcagtttct agatacatct actatttgat gggagtagtg 300  
gttataaagg gatcaatacc cgcttacatg aaataagatc tccccctaac attagatatt 360  
atttcatcat agtcttcaca canaagatag aaagaatgan agaagagtt 409

<210> 28291  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28291

tacacattat gttgatgcaa attggaagtt gaatagtata atgcttaatt nttctcattt 60  
 tcctcctcca cactcanggc atgagatggc taaagtgata tantgggtttt tggaagaatg 120  
 ggggattgaa canaaattttt ttccattaac tctatataat gcttcttcca atgatataat 180  
 gcacgactat ntgaaggaaa gactatcttt gcatactaata ggttttagtaa gtgggtgggta 240  
 attttctcat atccgatggt gtgctcacat tttaatcctt attgtcaaga aggggttgaaa 300  
 gtagtcgggc ctgctataaa caacattaga gaaatcatta agtatgttag tggatc 356

<210> 28292  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28292

tagactctgg gattttcttt tcatatttag aaccgatga tatttgaaat cctattgttg 60  
 attataagtc taaaagggga tctanaaaaa gcttctaacc aggtcaaagc cacagatgct 120  
 tcatctactc gaatcaatta taaactcctt gttccagggt ccaccgttcg tgttctatct 180  
 ggaacatttt cagggtttac aggaccctc aagaagctga atcgaaaaac caaattgggtg 240  
 agcttcttcc ttaacatgca taaattgaca taaagattat ntntcagaca cacacaagtt 300  
 aatctgatta anattgctgg aatgccata tgaaataaaa atgcttatga aagctgtaaa 360  
 taatgtgtga aatagcgggt caaagtaata tgtgaattct tttctccctt ctttgtagac 420  
 tcaaatatc 429

<210> 28293  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28293

gatggatgaa catgagnaac cncnaatcag caccgaccgc gatcctctag agccaacctg 60  
 aggcattgag cctgggtgggt ggtctccan aaagtggctg ctttcaaagc agctacccat 120  
 gatattgatt cacatgtagg gtaagctcga gccggaaatt ggaagaaccc ctgaaagggt 180

ttcttgtggc ttgattcctt ggaggaaggt aatacgaagc tgaacaagtt ttacattggg 240  
 cttattttga gaaatttaca ctcagatttt gatcatgtgc gtgatchatg tcttgcttgt 300  
 gaccaagttc cgtcaatgga ctctctcatt actagactcc ttcgtgtgcc ccatgtgttg 360  
 aagataanac ttanctaagg cctngaatat caccattgct catctcgtga agaagacgag 420  
 gtcgcacaat agaagaggcc gggatgaagga gtaatgcctc atgcactatt gagacgatgg 480  
 ccacagaaac tgtc 494

<210> 28294  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28294

tgagttcatt tgcataatcc ttcatttcat ttttatgaat ttgaatctag ttgttagtaa 60  
 atcttactca gtagtgataa gacaggcctt ntatctgttt caccagaata aattactgat 120  
 ttgtactacg ggcaactttg ctacaataat cagtgggac ctcctccagg agaaagggtga 180  
 naaatgacca atgatgtgtn tcggtttatg ttctacagtg tatagacaca tgtactgtat 240  
 gggatcaact gccgacacca cgatctcaca ttgccttagt gacagcatga acagtatgat 300  
 ccttactaat 310

<210> 28295  
 <211> 245  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28295

ctgattaaat gtaatnagag cctatagatt tcctttctct tttgttttct gaaatctacc 60  
 tcattaaata aacanagaga tcttgnttca tctgttcttg cagttccacc ttttctcata 120  
 tcattttgca tgtntntgtt tctttggtct tgtttggtat agatatgaag gtcgattctt 180  
 tgaggatcct aacaacgagg gtntgacaat cgattttgat agagatataa gccaaacgat 240  
 aaacg 245

<210> 28296  
 <211> 179  
 <212> DNA  
 <213> Glycine max

<400> 28296

tàatccaaag acgatttttg aaaatcatct ttgaagtcaa gtgttatggg ctctatactc 60  
 gtgccctttc ttgcatctca cttcgtctca atagctggca cctctcaga gtctctttat 120  
 gccctctctc actcacgtct ctgtcaaagg tgcccagcac taccgttgaa gcttccttc 179

<210> 28297  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 28297

tgcctttgat cttcttcac c aatggaaggg tgtgcttctc gaatataaag cgcgccgcaa 60  
 caccactgc cgattcgcta ctggacatga agacggttgc ccggctttat cataacataa 120  
 aataaggaaa cataacatag cctacgatac aggagaaagc ctaaggggtc atacgagcaa 180  
 taaagtatat ctatgcctat gtgttaagtg agactcagct tatttttatac gacaccgaca 240  
 agacagatta tttttagtcc tagatacacg actgcgggtg ctgggcgtag accactatac 300  
 agcagaacat aaaaccggag tcgtaactgc tactatacaa aacggtggta tacgtgatta 360  
 gaacactact ctgaaagggc agtgtgaatc gccctgcga aagaatcaaa cactcc 416

<210> 28298  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28298

tgcggggatgg taggggatca agaaggaggt gtttactaat attgtttcca agaaggcgaa 60  
 aaagatggag tgctatttac aaaatgaata ccanagcctc aaataatgta ttngtcatg 120  
 actctnttgg attcacattt tttattatta ttgttgata tagttgttcc attgtcccta 180  
 aggttttgct tcaatttgtt ttaaattcaa gctgccatgt caaggaaaag gataaacaca 240  
 cgcagaggct caattgtatt aaatttggtt ttggttctct tgctttaaga tttgacttct 300



ctaagtctga caacatcaaa atatacaatg gaattcatgg atgcttatat caagtagcta 360  
 ttgtatTTTT taaaatttct aagtttctga ttattaacgc acttgatctc cttgtaatct 420  
 ttccatatat aaattttcat ctaaataagt tcatcttatt ctatttttag 469

<210> 28299  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28299

gcgatctagc gtcatgcatt acannancnc atnnggtang nnacggggcc ccnaganagc 60  
 cggcctgcaa gcatgcaagc agtantttan catttttgcca gacacccgcc gtgntgaggg 120  
 agtccggcta tagattgaca gacaacatat aaacacagtc gaccctttga tctaacatat 180  
 acaaagaacg cggctgacac tgacttgatg ctcaaataga tgtaaggata ctgtagccga 240  
 tcgttcgca tgagatgcag atcacaggca catccggggc gaacaacgtg actatggaat 300  
 gggatatgatg tgtgtctaca gacaaccctt gcgggcacag cacagcaaaa cgaacatata 360  
 aatcctngca taacgcgtgg tgggggtctgc acgacctacc tcaatgggac acaaccctt 420  
 acatggtgcc aaactacttg tttagacttg tgggctttcg tgctatccac aacacctcta 480  
 ttagactggg ttttcaaaac aacaccnagc ccgtagtgct ctaagtaccc cc 532

<210> 28300  
 <211> 1082  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28300

agggactana gcctttagnn ngncatacng ncnantnnna ncnnnnnnan annanannan 60  
 nnannannga nnacnccng cgcggnaggg ggttttctcn tncangnaca gcgcnnnnga 120  
 ngcnannagg caataggacg agagacgann angcannang ngatanngta ntactnntan 180  
 ancancanan cnacgncacc agaaaaaacn accncnacgg aggggggagg gntgcgatag 240  
 tgcaaacgan nantnnnna cgannacaaa tcgacacccc cagcancacn anagtcnaca 300  
 gggatgcnaa gtttantgta ctgcagtaaa atgaacccgc ntcgacttag tcncntgnt 360

ntnannanac ctagtgctgt gatctgtcgc ataagacnnt gagttcagaa cccangcgc 420  
 ncagtataaa ctgactatag ccngataccg ctanaggcta aatcnagact ggtnntntta 480  
 nantccttag agcgaagnat tattcggctn ncttcgcgca tcgaacnaga nanaaaatgc 540  
 tncagtccca gcggaanaanc aaatctcant ctgtaatagt tggaacgtct acgattggta 600  
 taggtngggg cagacgacna ttgggcntgt agcctgggan atgggtcntnt gggtntctana 660  
 nngaagaaaa gtacgantta ttggcgatga tcattaacga nagtcatanc ntctgncgag 720  
 taagcgggtga cacntagnnt ntcccgaana ngantaaact atagcnnngca nncgatatca 780  
 ttgaagtcct tgatantnta cttgctcgcc tcagcntata gtccactgct gntcacntag 840  
 ggaaactncc ttcacatcatg actctaagt acatcnangt ntcancggca gnnagatgta 900  
 tactangatc aggacttatn ngttgaggtg tagggcatna tcgntcgtca tcgaaacatt 960  
 gtaacgtcgg ggacctagtg cgactactct aaattgannt gcgacnanat atctggcagt 1020  
 atcgtggtgc aaggggtcgg gctaatacgc tactcgtcaa tcggccagtg ncacgaaccc 1080  
 gn 1082

<210> 28301  
 <211> 87  
 <212> DNA  
 <213> Glycine max

<400> 28301  
 agctgtttct tcattttaca taactcgggg cgacacgggc gtgtatgatg ttcttgctct 60  
 ttcgcgctta tctctctctc aaatttg 87

<210> 28302  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 28302  
 agcttgtctt ccaataccct gatgaggatg tcccatatgt tcttaaaact ggactgattc 60  
 atttgcttcc aaagtttcat ggccttgac gtgaagaccc gcacaaacat ttgaaagaat 120  
 ttcacattgt ctgctccacc atgaaacccc cagatgtcca agaggatcac atatttctga 180  
 aggcttttcc tcattcatta gatggagtgg caaaggactg gctgtattac cttgctccaa 240

ggtccatcac gagctgggat gaccttaaga gagtattctt agaaaaaatt ttccctgctt 300  
 ccaggaccac agccatcagg aaggatatct caggtattag acaactcagt ggagagagcc 360  
 tgtatgagta ct 372

<210> 28303  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28303

attgattcaa agaagttgtg atgttgataa aggtgatgac aaaaagctca aagatcaaga 60  
 gcaattcatg ataacaaga tgatgatctc aagaaacana gaatgagttc aagattgaat 120  
 caagaacact tcaaggttca aaaggaaatt tgatttcaag aatcaagaat caagtttcaa 180  
 gattcaagtt ccaagaatca aaatcaagat tcaagactca agattcaaga atcaagagaa 240  
 tgctcaatta agataagtat taaaattttt tttcaaaaac tgtgtagcac atgaattttt 300  
 ctcaaaacct tataccaaag agttttgact ctct 334

<210> 28304  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28304

ngcgcaatga acctaactat cgcanacacg caattnagct cgtaccggg atcctctnag 60  
 tcacctgcng catgctttct taaatctaga gacaaaaagg tgatttttagc agagacgtgg 120  
 ctttaacgag aaaggcataa gggatggtct tcaaaatctc aattggagtc catggtgac 180  
 gcttacaacc atgaagaaca ttatgaaagg cttctagatc caacacctga tgagccataa 240  
 tcatccaaga agccataaag gaatcctcac tctcagctag attgcaagat tatgtcatgt 300  
 ntaatgacac agatacattc tatgaagaga ttatcaattn tactttattt gcgactgtg 360  
 atccagttaa ttttgaagaa gcctcaagtg acgagaattg gataaaggca atggatgatg 420  
 aagatcgtgc tattgagaag aatgacacat gtgagtnngt ggacttgaca acaacaanan 480  
 gcatcattat antaaaatgg tgtccg 506

<210> 28305  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 28305

ggcagtaata tcgtagggta atgaatgaca tattgtgatt gccaatatca catggctcaa 60  
 tgagcgctga tattagacag taacaactat tgattgacat aatacgcag ccatgcttga 120  
 aatcatatga ataggattcc catatattca aagagtgtca ataaataatg cctactaact 180  
 atggtcatta ggaaatgaca agccacactc tcgagcacat gacagttcac actctcctgt 240  
 tttccataac ttctgatatg ctgaagaaaa ttaaaatcta gcatacacat g 291

<210> 28306  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28306

ggatccttaa gtcacctgcn gcatgcttct gtcttgtcag aatacggtag acatacctga 60  
 gcattttttt acacattcta agcacaccac atgcctatat ccggaaagac tctggaggca 120  
 gcacaggagc agcttttgcg agatacctat gctaacacaa tatcactctt gtgggggatg 180  
 cgaacgacaa ctgatgaatt acttaatatg aattgattgc gttcttgtgt caatgctttt 240  
 tcgtgctaaa ttctgatgct cttggctgat caccatttgt gtcataattag gtgctttaca 300  
 ttattgtgct ttgacttgat gaacaaattg aactatctga cataggatct gcgataagtt 360  
 tggttaatat gctgcacata t 381

<210> 28307  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28307

atcttagcct tgggtgataa aggttcaaca agttcctgag aatcagagga aatcaaagga 60  
 gaccataatt tanacctaaa agaaagacaa gagattcatc ctctactcca aaatcctatg 120

aatgcaatca acctggacat ctcaggggta attgcccgat cttcatgaaa agaattggaga 180  
aatctcgaag gaaaaatttt agtgaaaaan aggtgaagaa ggcatacatc acatgggatg 240  
acaatgatat ggaatcatat gaggattcgg aaaatgaaga gataaaactg tgtctaattg 300  
ccaanagtta tgaaagtgat gaagaggtaa catcttncaa ataaaactta tccattttctt 360  
tttgatgaat ataagatgca tttgctga 388

<210> 28308  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28308

ttgatcattg aatcaangtg gatnncaatt aggttttgat gattgccccca aaaagttcaa 60  
gagaaatggg atttcaagat ttggagtcaa ccaaagttca aagaatcaaa gaattaaatt 120  
ntcacagggtt tcattgaagn aagaaattca angatnntca aagaanaagt taagatnttt 180  
aaagaaattc aagaaagaag aaatgaatnn tcaaanattc caaggggaaa gaannatcaa 240  
gaaagacctt cataagggga aatnnatntg aaaagattnn ttcaaaaaac aaaccatagc 300  
accagtttg tttttcaaaa gaagttttct cannnatttc taagttacca gagttntac 360  
tctctggtta tcgattatca attacctata atcgattacc aatggcaaag tttaatttca 420  
naaactttta ctgantntga acgtttcaat gtntttaatg atgtatcgat acatatatgg 480  
tatcgatacc cg 492

<210> 28309  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28309

ggatccacgg agaacaactc gcgatgtaga ggctgcanag ttgtgttaaa aaaactgtaa 60  
gtntcgctat ttaaaataca agaaatgagg tagaaaaaga ccaggggaaa gagtgctatt 120  
aaattatcat accttcacat taagaanata taanacacca atgttttaaa gattaaatat 180  
ttatttcctt tttgaatggg atgtgttaga aagatatgaa taatatattc tgatgttata 240

tagttgttat atctattaga tntatcttta atcatatctt tagctattag gtttatcttc 300  
 agttttatag ttggtatatc tattagaatt atctntagcc atatctnnta gctatatatc 360  
 nnttagctgg aatctngtat ataagcgaat gatgcttaat gaaatattc 409

<210> 28310  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28310

ctttgataat gaaacctaga actggcctaa tctggctggg tgtgaggaga aaccaaagaa 60  
 cttcttcttc tggaaggcct cttganattt taggatcaga caaccaaaga atatcatagg 120  
 ggtagttcaa caaaaaccag aanattaaac ttaaattttg actaggcact ttagtgcagt 180  
 aggctgggct tagtgcgctt tantaaattn tactcatggg ctaagtgcag cagactcgcg 240  
 cttagcctaa agacacagaa aatattnttc tgcagattag gcctagtgcg gcatgctgng 300  
 cttagcctaa gtctacaatn ntcanaacag aaaagggttt gggcttagcg cagcatgggtg 360  
 cgcttagctt atgccttacc aaatgaccct tatgcttagc gtagcanggc acgctttagc 420  
 tcaacctcat gaaacataac tacggn 446

<210> 28311  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28311

naattatttt aaaancattg cagttactgc cactatanaa tactcaagcc tggccattan 60  
 aaataggggt tggaagttct tcattccaat tcctcttttt gtaaaatgga tcattttcaa 120  
 ggtccaacgc cttatattga tcacctctta agtaaaaaaa agagtcgctg gataaccaag 180  
 aactacgtag gtctgatttc ctcatogcat ttgaggatac gtaggagaaa aacccccgct 240  
 tttgtcgacc accccaagag attcgtaatg gtccaatgcc ttaacgtntc tctcctttca 300  
 naaacaagag atcggttaatg gcccaacgcc ttaacgtttc tcccctttca aatcaaaaaga 360  
 ccgtttaatg gttcaacacc ttanatgacc ttntgttcaa taaaaacata ttntgcanaa 420

aaagataaaa caactttacc aaacactttg ttccgaaaga ctacgtangt ctgatttcct 480  
 caccgcanat tgaggaatac gtangagcaa agggaaacac ccttgtcgac n 531

<210> 28312  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28312

agttgattct gcattccaca tanatagccg gatcttgagc actgaggagg agcagattat 60  
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 ggcactcact gaagtatatt gcatgcaaaa atatgggttcc tacctgacca ctatgacgtg 180  
 ggtactgact aactcttaat aataatgctt ttccgacacc atttaaactc tcgccatggg 240  
 gcttggaaaa acgttatctc tgggaaacct gcatagcctg acacacatag cacaggggaa 300  
 atccatgtat aagaatgggtg gcgaccatgc cccattatgt gcagggcccc g 351

<210> 28313  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28313

gccgcagagc acgtgaaccg agaccgctag cgaaaaaaca tgactaaaca taatantnac 60  
 nnnannacac annnnnnnaa gacggaacga ccttagacaa caccgnnnan nnannnnnnc 120  
 gcgngggtnn nnnnnngnnn gnnggaagga agganaanat ttttttanga nngaaaangg 180  
 aaanaaagag gggggggaag aaaaaagggn aaaagaagaa aaannngaga agnaaaaaag 240  
 aagaaagaaa gagnnnganga aaaggaanna agagaaaaag gagaaaagag aaggganaaa 300  
 agggngaagg gaaagaaaaa ggaaggaaga aagggggagn gangggaaaa aaggaaagga 360  
 gagagangaa agagaaanga gnganganaa ggagaagaaa aagaggggaag anggaagaaa 420  
 aaaagagagg aaaagannan gggaggagga aaaaaaaaaa aggagagnaa gagagggaga 480  
 gggagaaaaa nggaagggga naanggaaaa aggagggaga aggagaaacg agagannggg 540  
 gaaaaaanaa aaaaaaagag gagn 564

<210> 28314  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 28314

aaaatggagg gctgtgtatt aatatcttac tcattcacat tcgtaaataat attcattatg 60  
 aatttaataa taatgcacta gtgtaaaatt atatatctac atgtaattac aaatagcatg 120  
 acaacataac ttataagcta cttattataa aaattaataa gcttattata tgataatttg 180  
 tgattaaagc taatactgca tagtcttttt ttttcttctc tagttatata atccttaaca 240  
 catcctatat tatttcgcta gtaatgtaac agttatttat ttatttcctg ctaatccatt 300  
 ttgcatttta taatgtaaca cgttgcttcc tttcogcttg tcctgtattt tcttcattat 360  
 caaaaagaaa agtatat 377

<210> 28315  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28315

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 agagggccca nggctctctt tggtttgaaa ancaagaaan nccacgggga gaaattaggg 120  
 gacacatgca tgncaaccc tgataagtca tcgtgtcagg gatattttcc ttcaaaatta 180  
 taaatcetta gacctagggt ngcctctggt ctgacttcca aacgggtatgg gtaaaaattg 240  
 gatatactat attcactgct tataactgtg tctgtgtatg aagtttaagt cgagctgtta 300  
 gctaaactgg taaattaaag atttgtagtg tgcatgactt ctaagctgat gcacagtgca 360  
 agtactctct ctctctcgga tgtcgaagat nggtcatgtc cacttgtaat acacactcta 420  
 tctttcgaat attgctcaca aatttccttt tcaattcaag aattaagtat cacaatagat 480  
 atctatgtac agaataacaa at 502

<210> 28316  
 <211> 505  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 28316

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cagtctgcct gcatgcgtgc aagctggtaa tgattgccgn angtgtcgca ncgcccgcgg 120  
gtgtatcana tatgcanata aactctctct tgaatggagt ccgtcatgtg tgtctatgat 180  
gattcgcttc acgttgctat tgagaaatga taacgactac tctactgtgc gtattacaag 240  
aggagaaagc acttgaatgc tctgtgcttg tggtaggccg acttatagat tagtactatg 300  
gagcccagct caacaagata aaccatatgc gtacacagct ttcgaaaacc ttgtgcaaca 360  
tatgcgtatt gcagcaggct gcatagcct tagaatcaag ttcatcacat atgtggctga 420  
gcattcgaag ctagtctctc agttatcatt caaatgacct tcgttatttg tcttgccact 480  
taaaaacctc ttanggatag tcgcn 505

<210> 28317  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 28317

agcaatacca ttaacacgaa actgttgtga ttcaagcata gaccgagtga gtgcgccaat 60  
ggcagcgcgt ggctagatat ctgctgccaa ctactatcat cttgatggcg ccacgaaaca 120  
gatccaaaat cactccttgc gatgccacaa gttcgctatc atgagggcggg agcgattcag 180  
tggcgcttac cttgcgaccc gtcctaatac gtgctcctaa gacgaaccat ggctct 236

<210> 28318  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 28318

agcttggttat tatattaaat tagcacccaa ctataatgcg taagatgtca aaaatattaa 60  
tctaaataaa ggctaagatg tatcagctaa actacaaggc ttcacagga aagagtacat 120  
acgagctctt gtcaaactgt cttaatactc caatgtcggg aatatcacca gaaaagaaat 180  
tggttgacaa gtttctaaca catggaatga gggtcagcac atactggaat tatcactatc 240

attatgccac ggacgcttag gccatattga cttacataat ttgcaaattgt g

291

<210> 28319  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28319

atcattgctt catctctatt attgagttct gtctttcttg ataccagtgc tangggcaag 60  
ctcattcaaa tcaatgaagc gtctctttcc tgtgctgctc tcaacttcct cctgaccagg 120  
actacttaag ttttcaggag gctggttgtg ttcattctct tctactgcan gatatgtaac 180  
agggtcatct actatcattt cttgttcttc attatcactg tcactctgaat cttcactatc 240  
catcatgtat tcaccattct cattgggacg tgagtgatca gctgatgaat tagacttctc 300  
agatttgata aactctgttt ctgattctga tacctcacat tgtcggtaag ttatacgatn 360  
tttagttgcc ctcttactac gtcttatacc cgattgtatc tcaccacag acctgagttt 420  
ggttctctcc ttgtcgacca tgcactgcaa ctgttg 456

<210> 28320  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28320

agctttatth tttctccctc aaactccttt taattatata agaatatatt nttgtgaaaa 60  
agtatattat taataatata taacaataaa tatattttnt atagtacaaa taaaattaaa 120  
caatatatac tagttagtat ataatgatgt cgcaacctac ccttttgagg gcgagcgagg 180  
cgaggctctc gggagcgtht tccaaaggag aaaaatgtgc ggagtcgcca ccaacgttta 240  
tttgtgaaaa acgtcgaaa aactgaagga aaccggtcat aaagaatatt ccaagttcgg 300  
ga 302

<210> 28321  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28321

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gcctgtntgg agtagaaacc catgggacca actcattnnt atntcttaat gtgaagtcgn 60
natctagtca aggggtctgag agaccatacn aagtttccta acgattttcta attatgtggg 120
ccattaagtc tatcatatgc tgacaatagt cgagaagccc atgaatctct tcggggggcgg 180
agtaggtgtc tgccatcgcc ttggccttgg ctaacaatcg gtgaagttct tgactcccgt 240
tcaaagtaag agcaaatcgg tccgtccaca tggttgcctc ttgggtgtaaa gagttgatca 300
cccttcctct agcctctttt tccgcgtata cttgggcata ttcgtccgca atcctatgct 360
cgtggggccgc ggctagacct aactcttctt gtaccttgcg atgatatgcta gcatgttggt 420
ctccccgctcg cataaacgct gagacaagct tcttttggac cttgaacagg caactaact 479
```

<210> 28322  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28322

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agcttttatt tcatgatgac taatagaatt tcgtatggtc ctcgactacc tgtgttttat 60
gagttcatgc caagtttatg gggtatacaa tactcaagtc ctaggactat tccgttggtta 120
agaatgtaat aagtaatatt tttaaaattt tgaaattata attacaatta aatntataat 180
gtatttatag tgtcttcaat cgtcactatt tataatntaaa tttaatggtc attcatgggtg 240
tgaaagtcaa cttgagaatt ctgatatgaa tatcaattct caagaacact ataaatacat 300
ttaattntta attgattgtg aatttttaaaa ctacttacac ggataatttc atgtaggcgt 360
tcttttattt ggtggattga taccocatcaa catttgatat ccgcccattg 409
```

<210> 28323  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28323

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tgagttgcat atcaatcttg ccaaagagat actcgttttt ggtctgattc cccgagccan 60
aggctttgtc aagggaaaga gtgagaagat cgccgttggt gagtatcttg gcacgaccat 120
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ctccccaagt tacgtcanaa tcctggtaga agttgccagc agaggctgcg atggaagagg 180  
ccaatacaaa tacataaagg acagtttttg ttgaaaatgt aatggaatga agagaagcca 240  
tgattggttt gaatganatg tagaaagagg aagttaaaaa tgtagtagct tggtagaagt 300  
aatgaaatgt gagagaagaa ggaagggatg agtgtggcgg agaggtanga tntgtactat 360  
ttatagatgt gtggaagctg ctatgactat cagggttacg cgtaggacaa tggttagtgt 420  
gtctggaaga gttggaacaa acattaaaat attaac 456

<210> 28324  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28324

ccgcgatcct tgagtcacct gcggcatgca agctttggtt gttttggtgt tccagttcca 60  
gtagagcca tgtccatgtc ctttctcttt acctntacca tcatcatcag ctttggcttg 120  
tgcattcttt atgcatctgc agaactccag agattatcac actcttccaa acatgatggg 180  
gctcttagct tcttggtgct tggtgactgg ggaagaagag gcgcttacia ccaatcacia 240  
gtttctttcc aggtttgctt ttatgttatg tcattcatgc aaatatataa tatgtgaaaa 300  
ctgaaaactt gtattcctgc acattaattc atggttagatt ctttatataa ntcattttca 360  
tttgagtc 368

<210> 28325  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28325

acgtactgat aaagtatcac ttaccttcgt taagtttttc atatagtact ttgtacgtat 60  
ttgaatgtag attgaatcac ctaaaatcat acattgaaac aacaattaat atgaatttaa 120  
ataaatgtta gcatatttct cccagggttaa gaaattgatt ctgagtctaa ttatgtttga 180  
attacctttg attataaata atttattgta ctcaaaaagt aatttttact taaaagtaat 240  
tttaggtaac ttttgtatat gaaaaatttt ataccaaatt tgactataac ttgcttttaa 300

gataaaaata tctaanacct aagttacttc acttcaaaat cattntttat aaaattaatt 360  
 ttatttgaat tcaatttcgt agattgatca cgtgtaantt atagtacctc aaacatatat 420  
 agtgggatac tctangcagc aaacacaa 448

<210> 28326  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28326

ttgtctattn tcanatntac tgcatacacag cacgccccgc cccagntttc taatagaata 60  
 aacaactcta gagtaaataa tttatgttta atccatgggtg gggcctataa cctaagaata 120  
 agattattgg aactttctac tctgtacca acttaatcca ttgagcccat gattcagggc 180  
 cctaatatct tttggggggg aaaacaattt gggaggcctt gatgaaaaat caatggagat 240  
 tcagacgcaa gcctacaatt gtatcaacat ccaagccttt attataaaaa agcttgggta 300  
 attatttaag cgatcagtct gcgttcaata ttaacctta tatattagtg tacttgtccc 360  
 ctctatagga aatattttca taaactatca ttaaggggct 400

<210> 28327  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28327

ggctgactta cagttatgga gcataccatan gctttctgtt ggtttctgtc tctntnnggn 60  
 ngacagattc ttacaagtta atgagtgtgt ggttaaaaaa aattctctta ctatacaaga 120  
 gaggaaagta ctatgatgca ttttaatttg cttacaatat tcagacataa cttcattgaa 180  
 gatggctccc tactataaag agaaatgaaa agtgggtgtca caattgcctg gtgtcccagt 240  
 tacgagttgt tgcttgtctg aagaagaatt atggatagat ttgcatatct tggcaagttg 300  
 acctagtatg agcatagtct gggtttatac acagttaatc ttgagtgggt ttagtgtaaa 360  
 tataaatcca gggatgctg gatctgtttc cttagttcct atatatgcaa tcccctattc 420  
 aggtattgtg taccttttcc cttagttcct atatca 456

<210> 28328  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 28328

tgctttcact gtcataagtt agccatatgt aaagatgcaa agccagttac ccagaggaag 60  
 agaaagatgg ggaaagagag gtattatgta gtacaacaag aagtgggtcaa gttaatggcc 120  
 gcccaattca tcagagaaat taactactcc acttggcttt ccaacatggt catgggtaag 180  
 aaaccaaacg ataagtggag gatgtgtaca gactacacaa atctaaatcg agcatgctcg 240  
 aaggatgcat acttactccc aaacatcgac tgactggctcg atggagtagt cagacacaag 300  
 aatgttgagt ttttggatgc ttattccgac tataatcaga gcaacgtatc aacat 355

<210> 28329  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28329

tgcctanaga ggtccaggaa ggacaaggca gctctttgaa ctatttccgc tccggagtat 60  
 gacagtcacc gctttatgag cgctgtacac cagcagcgtc tcgaggccat caagggatgg 120  
 tcgtttctcc gggagcgacg cgtccagctc anggacgacg agtatactga tttccaggag 180  
 aaaatagggc gccggcgggtg ggcatcactg gttactccca tggccaagtt tgatccagaa 240  
 atagtccttg agtnttatgc caatgcttgg ccaacagagg agggcgtgcg tgacatgaga 300  
 tcctgngtaa ggggtcagtg gatccccggt gat 333

<210> 28330  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28330

attcactntg atcatttgtt ttctctctag cacaagtcca agctttcttc tcagtcctaa 60  
 atgacatttc aagctagtat taactcactt taacctccat ttaccacaga attcagactt 120

agcctttcca ctctcaaagc ctactcttt gtccactcat aacaccacat tctcactgtc 180  
 caaccctagg ttaactctat atttcatctc taacagt 217

<210> 28331  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28331

ttataaaatt gatgttattt ttctgacct tcgttgaacc ccgatcacat tggcgcgatc 60  
 gggaatttaa atgacatctc cttgagtaga atctgaaaca ctctcagtc ctttatgttt 120  
 tgacaggggt aatngatcct aaatgttggt attaacctta tnttttaa atatactaaa 180  
 tntccttcaa tttggtatat agaaccttgc gtttggattg acaaacgga atgagagagg 240  
 cctctaagcg atgcaaagag gaactgacaa agacctcacg ataggtaagg gggagttaa 300  
 tataatttat gggcttgata ccataaattg ggtctaggaa tccaattatt agaatgtatg 360

<210> 28332  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28332

tttttgggtt atacttatac attatacaca atatattata taatatatat atatataatg 60  
 atggatttta gactattact atcaattatt cagcacgcat gccagaaaa cgtaccattg 120  
 atgttgcttt gataactgtc tcttgcttat agccacanat actctctttg ctcttcaaaa 180  
 ctttgatatc atagcatcca taaagtgcgt gtcacatcca ccctctcttt tcacgcgtct 240  
 ctttcttaaa tgttcttcca aacacttct 269

<210> 28333  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28333

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cctactctat tttttcttgt tctataagaa ttctctaaga ttggtggatg ttgtctaata 120  
gctgagcagt ttagttgata ttcattttta attgggtgtn ggggaagttg attgaaattc 180  
atttcagcac aatggggaan atttgtggng caaanattca aacttgaag actgtttgag 240  
ttaaatatgt ttacataaaa ttagctcttt tctgatacaa taatatattc attgagaaaag 300  
agaataatat tacaagaaca ttggaggaca tgggatcttt tgtgaggtaa aagaggaaaa 360  
taagcaacaa aaggaaatgt taaaacatga atggagcana actgtccaat ccctctgcat 420  
atctctgtta atgaaacact tgtg 444

<210> 28334  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28334

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aagctcctta agaagatcct aaagaagcta agagctagct acacatacct ctctaatagc 120  
taagctcacc tcttgagatg agaagctaga gcttagctac acaccccta ttatagctaa 180  
gctcacgccc atgacanaaa acatgaaaat gaaaaacaaa aagggtttat taaaagaca 240  
actcanaatg ccccgata 259

<210> 28335  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28335

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acgacaattg gtgttaagca gctcatttcg actgacaaga atccaaatat tggcaaacaa 120  
tcatccccag acaaaaatta nggtacgaca gccatcatga aaaagggttg ttatgtttgg 180  
acgaccattt tcacacctac cttagaattt aatgattaaa aaagaattaa aattgttgat 240  
aaattaatga gtttatgaca actaggcagg atcaactnta ctannaggac taactgttat 300



ctacatatat tgtctacgct cgganggaaa catnctgtnt actattaaca ngcgtccaac 360  
gcactatnac catangtgtc cactttgtat atnaaaccaa tgtatacatt gagtat 416

<210> 28336  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28336

atttactggt tctttttgct aataatgtaa atataaatgg gataagggtta ttccgtaaaa 60  
acctgggtcta tatttacttc taagaatgta aggggtaaaa tgaccatggt cctatggcat 120  
agccttatat taattaatan ggtccttgat gatgctccca cagcctaatac anaggctcct 180  
gctaagggtgg attgtcgtca aggtacgtca attacataaa acttccactt atatatattt 240  
ccttatgtgt ctgtacacta gttgtntaat taatatccaa attcattatg tatntagtgt 300  
aatagacaac atggaactac tgaatgcggc tactatgtca tgcactggat gtccaccatc 360  
at 362

<210> 28337  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28337

taataatcaa ctaaataattt cctnttggtta tttttgacag gaaaacaaaa ttcactcctt 60  
atatggggaa acaagtggat cttacagga gaaagttggt caatattgag tgggagcatg 120  
gagatagggt gaaacagaaa tgtgacttcg atggaagaaa tttgtaagaa ttattttgaa 180  
agaatgttgt aattattaag cttttggtgg gaaaattaat ttgctcgta ttgagatcga 240  
ttgaagcca tttggaaca ctttgaagg gtgggtgttg tcgacatcac catggcttta 300  
tatggtaaag tttgactttg caaaggataa atagataatg gntggaaatg taccatgaat 360  
aatctttgat tggtagcata tagtttgact ttgggtgtga gactntgtcc cctatgatgt 420  
gatgatcaat agcatg 436

<210> 28338

<211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28338

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tagtttcttt gtttttatta accatgcctt cgggcatata gggtattgac ctttgcacaa 120
tcttataact ctgatcgtga attaagcata ccagattcgt ctcataataat cattttttgt 180
ccttgctaaa attcaagggt gtccattatc acttatggcg taattattaa attttattga 240
aattgcattc cttaggggct ttaatgatgc tgtaattaat gggttttgtg atgaaagcac 300
gtcacttgat cgcactgatg gtcgtgaaga tgtgactata gccataaact catctccaaa 360
caaattgtga actatgtctt ccaaataatt tattttcttg agggatatatg caaatcaata 420
tatgagaatt catggatcaa taattcgtaa agagtttgtg tatattgaat tacaatatca 480
tgatacaatt tgtctggatg atgcn 505

```

<210> 28339  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28339

```

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ccccggggca ttccattgag cattgtaggt cctgaagca taagggtacaa ggtctatttg 120
atgcgggcta ggtgaaattt gaggagaatc gctngtgaat cctgacattg accagcgacg 180
ccatacatgg ggaaattntg aaagttgttg gagatgtctc taatgactca ttangatntt 240
caagtntatg ccattattgt aaaccacang tacaatggct attaacatgg nataaatttg 300
acatccttgt ctctcatcct ctcacaatta catctttgct tatntgactt ccaatggaat 360

```

<210> 28340  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28340

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tccatttgga cttgtgtagt gttctctaaag ccttgcacaa ggcagatatg tcaagtaagc 120  
ataaaaaatct aaaaattagc tacaattctc aattaagctc aatcattntc caaagaccaa 180  
aactaagtta aggtgagaaa ataaagatca aagagatttc aattgagtta agaagaatag 240  
acaaatacta aattacaaat gctcagtcaa agatcataca ggaagagtca agatccgatc 300  
ctcattcana gatcttgctt catgtgctct agtgtctggg atagaatcca agaccaatga 360  
tgaagctctt acagatgatg actggatca 389

<210> 28341  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28341

aatctcagaa ctgcaaagac atgaccttat gatattttta gtaagaatgt catacaaata 60  
tgagttacat tatgaagcat gtcaaaaggg gaaacaaatt aaaaactatt tttcaagcaa 120  
aaactttggt tccatctcaa gaccacttga actattacat attgatttgt ttgcttcaac 180  
tagaacaacc tttatcacta gaaggacata aggtctagta gttgtggaca actactcaag 240  
atggacatag gttatggtcc ttgctcaaga gaatgagtcc tttgaagtct tctttaaatt 300  
ctgtaaaaag gattctaaat gaaaaaggag tatgcattac ttcaatcaga agtgcata 360  
gtggagagtt tgaatgaga gctttcgcta ttatgtaaga gaatgaaanc ttcataactt 420  
ctctattgct gaacacctca acaaaa 446

<210> 28342  
<211> 346  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28342

agcttctctc ttttcttgn taatnattat atnttgagtg taagccttgt attttgctat 60  
gtttntatga catttgaaca cttagtattt cttttaaata tttgtttagt atgactaaac 120  
atgatgatta cttgctcttg gttgtttatg gttatgagtt ttaaacttaa ttactttgat 180

gatatatgat tagtggtatg tactattatt tggttattat gaatgactnt ctggattata 240  
 tgacattcta tgaagtatta tctctctaag attgatgaat ggtaagtta tcttgtctga 300  
 ttgttctcta ttctcttgta tgaatagtaa tctatgtatg tattat 346

<210> 28343  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28343

catccaagca attcagaatc caaacatcat gttctttctc tttatcaaga aaacagggca 60  
 gaggcaaaga actctgcccc aaacacattc caataccaca actntctcta ctcanatacc 120  
 cagtaacatt ntctttgttc cgcttcgtta accgttggat cgacccgaaa cttttactgg 180  
 aggtccctag tacataggtc tacattntga ccgttgggat cgcctagana atgtccataa 240  
 taaaaaatac acaacattnt ctgcacaagc acaattttct gctgcacaaa atntgacagc 300  
 tttttgctgc ataaattggg cagatttcga aatccctctt accctcatcc caatttgcct 360  
 aaattggatc ctacangtcc tanatcatgt ataaatcana tctaaaccaa agacaagctt 420  
 cagaccanag caattcanaa tctaggtatc taacaccct ca 462

<210> 28344  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28344

agcttgtatt tataaagtct catgattgtc acgtgctcat gcaacaattg ttggtcgtgg 60  
 ctatatgaga catcttgcca aacaaagtca ggtagcgat aactcgcta tgctntntct 120  
 tccatgctat atgtagaaag tcattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180  
 cgcaattata ctgtgccaga tggagatgta ttttccccct gctttctttg acatcatgat 240  
 tcacttgatt gtgcatctgg tcaaagaagt caaatgttgt ggtcctgttt atctacggtg 300  
 gatgtaccgc attgagcgat acatgaagat cttaanaggg tatacaaaga atctatatcg 360  
 tccagaagca tctat 375

<210> 28345  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28345

actatanata ctcagctaca tggttaatttg attctcctat tttgcttaat ccatatTTTT 60  
 gattcttcca tcttaaaata aagatgtggg attcctctat tttttttaa agacccatca 120  
 ttatagtccc atatttcaaa atagagaaat ttgttccttc tatttttagaa aactcacaat 180  
 tccggtcccc atatttttaa aaatctataa ctttggtttc attttcagtt ttaactacat 240  
 tttatttctt acattatagt taattaaatt ttttttatga taccttanat gaatatgtta 300  
 ggcccaatgt tcaactatat ctaactgggt aagtggcctg agatagattg agttcttgat 360  
 attntcaatc caatccaatt aaacttaatt atagtcgatt atattgcgat ttacctttta 420  
 ttctaccaat tggattggat cgcgttggtt attgggttgt acctttaaaa aatgccacc 479

<210> 28346  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28346

agctntttat gtgttgctgt atccaatgaa aactctgggt tctgccttn tatcaagttt 60  
 gtccctttta acctgtggaa cataagagaa acaaacacaa ccaaagattt ttagaatttg 120  
 taaatctgggt ttgtaaccaa accagccttc aaatggagtt tttttgtgca aaactcttgt 180  
 aggtagtcta ttcagcaaaa atactacagt gtttgcagcc tccgccata gctcctttgg 240  
 caactccttt tcatgcagca tacaccttgt catctccatg atacttctat cttttctctc 300  
 actcacanc atttgttgtg ggatgtaagg tacggtgagt tgggtgctca tgccagcttc 360  
 ttcacaanaa ttatcaaana catcattntt gtattccttc ccattgtcag acctttattg 420  
 ttgcaacctg caatcac 437

<210> 28347  
 <211> 427

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28347  
  
 ctcaactngaa gtggtaaacc aatgcagaat tttgtacttg caaagaaaat taagccttaa 60  
 tctgtagaag aaattanggc agcaatgaca gaaacnntct tgaccacttn ntgcttggtc 120  
 ataagagcnn cctaatacca tctcaagggc catttattgg cgaaagcctt aatcttgtga 180  
 ggtagaaggc taatgaatgc ttctatatct gacttggtca aattatataa caaacaatt 240  
 caatttagaa tctacaaaat cagataaacc aagggattag gtattgtact ttgatacact 300  
 gaaacattct gtgggctatg atatatatta ttatctntac ctcaaggatg gtaatcagtc 360  
 catattcctt tcgccacgta agcattntct tccacatctg aatcgtcttc tcaatggtaa 420  
 agtcctt 427

<210> 28348  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28348  
  
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 tcttaccatt tctctccga nnacccaaac tntagccttc attntcttct tcttgcata 120  
 ggccttcaag gaggaagaga tcgccattnt catcttcttc caagggtccat agtagtgtct 180  
 tgagactcct tctctcaaag ctntggtaag aaggaagaga tcaccattnt catcttcttc 240  
 caagggtccat agtagtgtct taagactctn tctctcanag ctttggtgaag aaacttttaa 300  
 atcttttctt ttctactcat ttcttcatca ntttgtgta aaacccttat g 351

<210> 28349  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28349  
  
 ntgaggattt ggtcttcacc agtgaaagga tcgatgtggg tctgatttat gcaaatttga 60

tcatcctact aggacgactg agaaaactgg ngcaaataaa aagggtgaga aagagggaga 120  
aaccatgct gtgactgcca ttcctataca gccaaagttc ccaccaaccc aacaatgtca 180  
ttactcagcc aataaccaac cctctcctta cccaccacct agttatccac aatggccatc 240  
cctaaatcaa ccacaaggtc tgtctaccgc acttccaatg acgaagacca ccttttagcac 300  
aaaccanaaa aacaccaaca aaa 323

<210> 28350  
<211> 318  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28350

agcttgtatt cctangatct tcatcaatgg attccgtttc tttttggaag atgaatggca 60  
gcagaatgga gaacgaagag agagaggaga cgccacttca aggagaagat gagtctagaa 120  
gaagctcacc accataggag gccatggata agagcttga ggaagaagga gatgaatgaa 180  
gggagaggaa gagaatagca cganatttta tgctctaaaa gagctctgaa atctgaagtt 240  
taattttcaa attatcaaag ttgaaaaaat gcacacacat gacctctatt tatagcctaa 300  
gtgtcacaca aaattgga 318

<210> 28351  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28351

tctcatgggt gagtggactt gtctgatgaa acctctactt tatcttgaan gattntatca 60  
agttgcatat gatcttttga caaccttttg aaatcttttt gcaagttggt gtaagctttt 120  
gaaataacgt atgagnttga tggtaattca tgataagcct ttctaagaga ttcaggggtca 180  
tcgagattta ccttatcctc ttgatttgat tcatattctt tagaagttgt gtctaccatt 240  
gaacatagat tggcttcttc ttcaccttcg tcagacgagg tgtcatccaa atcttcccag 300  
gtgctcataa gacanttttt tattgggtct tgtagtgttt cttcttgtct tatgacttct 360  
ccaactctgg gcattcagat tttaagtgtt cagggttctt gcattcatag catattatgg 420

agcttttgcct ntatatnttt atccttgagt act 453

<210> 28352  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28352

agcttttcat atgggtaaaa ggctcacatt cattttcttc tacatcatat ttaaacttgt 60  
ccaaataaat aataaagtca tctcgacaca cagaaggcca tctaagtttc atacaattaa 120  
tatagaacct atatcctaata gtcacatcct atcagagcgt ggtgttcccg tgtcctctag 180  
catgagggttc ttcatagtca tccacctatt catctgctcc cccaaacaca aagttcaaga 240  
tcatcacagg atccaaacac aaatagcaaa ctgggagtgga gttatcacat ttctaactac 300  
tagagagaaa caacacaaca tatagtagcc aaatacaatt tacttagcat atctcacatt 360  
atntcatcac tttgtcattc atcaatcaca ctnttcatcc atcagtcaca cctttcaatc 420  
atcaatcaca atac 434

<210> 28353  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28353

tactaagctt gcaactgaaa actcatctga naattatata tttactttac tgatcgatga 60  
ctttcttaat attctagtct atgtatatcc ttgtagctct ttcaagtttc ataagattac 120  
atanaagtta aaactcctat tttttatatt ttaatggttt taaaatatta caataacact 180  
ctntatcatt ctattttttc tattntaatt atttgaaaat attatattat atcctctatc 240  
tatactgtgc ccttaacacc agaggatggt cttatatattt tttatataat cacgtatttt 300  
ttttatcttg atttggttaat tgtgcaaacc aaataaaatc atgactttga gttgtacaat 360  
anatcaagaa gcaataacaa ttccatcaat cagcagataa attccctagt gcaataaatc 420  
attccttgta aactatactg anacacacta acaaatacca 460

<210> 28354



<211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28354

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agcttgtatg attatggtgt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaaagc gcacataaac ccaccatccc ctgttgccca 120
cctccaacag agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccgag 180
tccccatcaa tccttccaag ctttcacaac atccaagtta tacaacattt aaacagcaca 240
agctatcaca gtcaagcaaa acagagcaga ggcagaanac tctgcccana acaccaacca 300
aaaatcacag cttttctcac ttaaagacct cagtaacaat tccttcgatc caattcctta 360
accgttggga tcgactcaan attttactgg aagtctatag tgcataagcc tacattgtga 420
ccgttggatc tact 434
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<210> 28355  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28355

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agctccttga ctttttgggtg ctaacccttg tcataggtcc tccaagtcct tctaaagggt 60
ccttgccctt tttccttgcc ttgtcctcat cactatctca gtataaaaat ntatctacaa 120
tcatgggcat catgtaacct cgaaaagtca aattgaacac cagcccaaaa tttgaagttt 180
gggacgctaa ccacccctt gctatttcaa actgtcaaaa tgagtatgca atgttgtttg 240
tcgtataatg tgggtcttggt tccatgttat tccaaataat attttcaatt aattatgctt 300
tcatcatttg cagtcacaac togacaacct atgtgatata ttggatgctg atggatgata 360
atttgaagtt cgaagtaagc ctacatgtag atattatatt cggccatcta tccacataca 420
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<210> 28356  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 28356

tgccaagatt	tcagtgaggaga	gtcagaaaata	cttcaaagac	atgggatcaa	ttctctgaat	60
cgagtcgggt	ggacacattt	tttgaggctc	caataaaatt	ctgatcttgg	aggaattgag	120
cttcaatctg	accattttca	gcaccttgaa	tggttgtgca	agattcttca	tgattatgga	180
ggctctttaac	aggaagctca	gattgtgagt	tcagcaaaga	tacgtcattc	tgagataaag	240
caactcagat	tttcaaattc	tatataaaaa	tcttatcagc	ttttcatctg	aatatggtat	300
agatgcctgg	gatttcaa					318

<210> 28357  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28357

atgcatgttt	tactatgaaa	caaacaataa	ataaatacaa	ttcttatant	aaaaaagatg	60
taattgtaca	aggtacaaac	catatacaaa	acttgtgaac	cacacaccta	ctgtcactta	120
ctggatttaa	atttgtcaca	caaaaaaaaa	ttttcttata	ataaataacg	ctatatatta	180
ttgaatattt	taaaataata	aagaaacaaa	ata			213

<210> 28358  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 28358

gataaagacc	acatctatcg	agacagaact	aagactacac	ccaccaatna	aaaactataa	60
acactaacna	cngagggggt	gaatcgatgc	actgcnngnn	accnagcan	ngnncngng	120
gagccngnag	aggagaccgg	caggagaggg	agacgacgaa	ttttgtatct	ttgagtgctn	180
ngacagccat	atatcgccgg	gtgcgacggc	cgcagcggca	cacgatcgca	accccgaaca	240
ctatcgaaga	atcccgaac	cagcaacctt	cgtaccaag	aatggcccag	aacaagagca	300
tcttagcaca	cccagcacac	aaactccgga	acaaccgaac	cataactgca	caccgatgat	360
cgaacaacaa	agccaagagg	atcaaggaaa	aagggaacg	acactacgac	tccaaacaca	420
accaccggca	taagaaaata	tctgactgaa	tataaggata	tctatacatc	cggacgtgaa	480

caaaaaaacc attgaaccaa aaatgaaaca atccaatcaa ggcaagaaaa ataaan 536

<210> 28359  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 28359

tactcacaag ccacaggagt gggatcaga gtatctatca acccttgacc ctaacctagt 60  
cttattccca aaagctcaag aatctaattg tgagattatt taaacccta ccccttagcc 120  
ttcacgctct ttagcctttc cttctcaaag ctctcaactc tcacccaaac cggcttcacc 180  
acccttgagc ataaaataag ttgttgcatg ggagaaagtt aagaagaagt ccttggaac 240  
aacaatgaag aagggaaagc tggataacct ttggagaaca aggaggcctt cgagatggac 300  
gacatcattc tatc 314

<210> 28360  
<211> 513  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28360

cagcaacaca caccgaaaag caagacacat agcatagatn acacnacanc naacaaannn 60  
nnnaacggat gatgatgnga ccgcccanaa aaaagancng cgancannan ancgacnngg 120  
aggaagacaa gcanacngta ttattaaaac acagcaacga accacaccgg gggcgactat 180  
caacgaccgg accccagcac aaatacttta ccagaaaaaa ccagaagaaa agcatcacia 240  
caaaaacacg ccaaacgcca ggccactaag agccaaagac acccacaaga acaacaaaac 300  
ccacgacagc ggaccacact cgactcttac aaccaaagcc tacaccaagg accgccccaa 360  
cgccaaatta aacgaaagcg cacacgcca gaaacaagag gcaagaaaga cacaaccgac 420  
cccgaagcca aacgcaccca acgctacaaa caccgggacg gaccccatat gaacgcacca 480  
accacggcac caccacgaag aaacaaggcc aca 513

<210> 28361  
<211> 200  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28361

tctataagcc ctcacggctc ggagtgttat caataaggct ccttacgatac ntacacatat 60  
 caggatgaat actttattct attgtggccc aaatggagta tcctgtctcc catattatct 120  
 gagatagtaa tgtatgcgct aactatgggtg tagaattact ctattatggt ggaagataaa 180  
 ctttgaattt ggatgagggtg 200

<210> 28362  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 28362

ctcaccacac tttttggatg aggcttccat ggatagtgtt gccttctcta cactttcttc 60  
 cttttccacc gataatgtaa agctacaaca atgagtctcc caatgtttga tataagtttt 120  
 gtaagaccac tcttaattcg aacaagtggc ctaaagggtg aaatgcacag tccttccaag 180  
 cgagcaactc ataggtgtaa caccatctta gaatttcgta tgagcatctt cattgacaat 240  
 ggaagacttg aacgaaaatg gctggccttg tcctcattgt tctgggaata gataacgatac 300  
 tatataatga acaccatgta tgaaggatgg aaatactcca attattgtat cccacggtaa 360  
 gacttgtagt cacactaatc aatgact 387

<210> 28363  
 <211> 539  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28363

aaagttgatc cgaagacact cgcaaaanac ggncannnaa ntnnagncaa ngctgcngag 60  
 gancctatan agncggcctg cagcgtgca agctttatct tcttctactg cacaaggctc 120  
 ttaataagtg aggagtttat tgaggaaacc tctacctga ctgaagacac tcgacataat 180  
 actgtatctt actcctcttg tggacaaagt atgacaagct gggggcgagt acatattctt 240  
 cccatcagac cttggatgca actgagaatg ttttcccatc tcacttagat cttgatgggt 300  
 attcaagcca tgcttccact tgccctgaat gtaaagggtg gttccaatca cactcgcaca 360

tacattgtaa tctacttgca taaatcaata caatgtctta catctagatc agaccagact 420  
gatgatcaaa gacattggac cctttcttcc ataggagagg ctaactttat tcttacttat 480  
gggctatccc aatacagact acaagcgttg aagccggttg gattctctgc aaaccagcg 539

<210> 28364  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 28364

ctgagtaagc tcgaataacg tccccttatg atcatcataa caggttggag caaaacacga 60  
ttccagaggt tgcaacattg tggaccatga gctgattaac acgccgcgaa acatccattg 120  
aaaccagctg agtgcagggc actccatgta taaggaagtc acgtagcagt tactcctgta 180  
gagcgaacct caagcaagaa tagaacctga cataattgta taatatagaa at 232

<210> 28365  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28365

agcttctctt atgtcatggt tatttccagt ttctgagaa tatctaagaa tcttgcttat 60  
gtgccatcat tttcttctat tttctatacc cttttagcac catgttaatt actaattggt 120  
cttaattgtc aattaattac gcagttttat tatttgggct catttagcta attagatggt 180  
tttaatctaa tttcaggaat taatgaaaca ttggacttaa tccggatttt ggttgtggac 240  
ttgaagaggg caaataaagc aacactaacc ttagttaatc tctaattagg aaatttccca 300  
attttatttt attgtgggta gtgtatattc cgttatgngc cacagtattg taatacgctt 360  
aatgactttg agtgactctt tttaaatt 387

<210> 28366  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28366

tccatcactc tcacttagga aaactaggta gcaagtgttt agtgtcctct gttgtgcaca 60  
ggcaagtccg cccatggtga tcagcttgag tcacaaggga tttccaaacc gaatgacata 120  
cccctaagta caggatatttt ccttcatgaa aaactacaag tacttactga aaaagtttat 180  
actatgtcca tacaatatga agtatgaaac atgggcacca tcaatgtact gatcatggat 240  
aattaaagat tctaagccat cccccactag agatgcttaa aactctntaa ccaactctatt 300  
tctcccacca gggatatcca acttggtcac tgcactnccc atgtacatac atagcatata 360  
ccatcacaaat aacattatcc acatcaacat catctcatca gtaatcacat tcaacacaca 420  
cacatacaca catatgtgta tatatatata tatatatata tatatatata taaa 474

<210> 28367  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28367

agctntattt ttctaactgg ttatgaaact aatctatgtg ttaactcagg cgaaaacaaa 60  
cttacatatc attcattttt ggtcggaggg aataaaattc aataaataag aagtaaaatc 120  
tacaaaactt aatgatttct aataaattct atttaataat tgttatctct gttataaaaa 180  
aattatagta gtatttgaga gaacataggc aattttcgat acaactatct cgataggaag 240  
gaataatgac aagataaaatt caatgacaat acttggtata cagagataaa atgacanaca 300  
ttttattgaa atatttcgat aaaatgattt ttgacaaact attcgcacgt gaagaaagaa 360  
cgcccggaag aaagtaaaat tattaatatt ctcagccata tgg 403

<210> 28368  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28368

ggggaggaca gatatagagt gaaattggag gaaatgcgtt gattatattt caagtggctt 60  
cagaaagccc tgtattctca ngctttcata actctcatat tctggagctc ccctatattt 120  
gtctcggcgg tcacttttgc tacttccata ttgtagggtg gtcagctgac tgctgggtgg 180

gtactttctg ctctggctac tctcatgac ctgcaagaac ctttgagga atttccggac 240  
 ttggtgtcaa caatggctca gacaaaggtt tctcttgacc gattatctgg tttcctgctg 300  
 gacgaggaat tgcaggatga tgcaactatc gtcttgccac aaggcattac taacattgct 360  
 atagaaatta aggatggtat ctttctgtgg gac 393

<210> 28369  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28369

ntataatact ttttcaaaag cacagaataa ggcgggggga taacgtatgc caacatcatg 60  
 atatcattcg gtagcatata ccttaaggat tacacctgct gtacgaaaca taaattacca 120  
 acaggggatt cacatgtaga ccttcagtgt caaaagctca caatcaaggt ataaacacta 180  
 ctggtgagag aactgccaat gtcaacgagt acagtatccc ctcaccatac caattacata 240  
 gagaaatgcc cactgattac tgctattcat gaaaaatcca gacaagccca ctcatcctga 300  
 tttaactata aataggggga gaccaccagc taacccttat gggccaacgc tagcaatagc 360  
 acatatatta acg 373

<210> 28370  
 <211> 227  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28370

agctagattg cattatttta gnngaaatcg tcaagtgtgc acatgcaatc ttaattctca 60  
 acacactctt tggatgagtc ttccaaggat tgtgttgctt tctctaaactt atcttccttt 120  
 accagcgata aggtaaagct acaaaattga gtctcccaat gtttgatata ngtttcgtaa 180  
 gaccatcttt aatttgaaca aatggcttan aggtgtaaat gcacagt 227

<210> 28371  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28371

ccatcaaggg atggaccttc caccgagaga gacgcgtaca gctcanggac gacgagtaca 60  
 cagattttca tgaggagata gctcggcggc gttggatggt gctgggtcaag cccatgggtca 120  
 attttgatcc ggatatagtt ctcgagtatt acgccaatgc ttgggtaatg ggccagtgga 180  
 ttccattcta tgc 193

<210> 28372  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28372

gaactacagc gagacggcaa attaaatacc aagnacaaaa aannacttca caaaacanca 60  
 ggannnnnan nnnnnnaagc gagctgatcg agccaatcgn annnccannn nnaannnann 120  
 nnngaancng gngaaaannn aaagaggagg agaaggagg cattcttata gttgngagag 180  
 ngaaannana aagggggaga gtgtgaaaga agagaagatt agaaaaaaag aatgattagg 240  
 gaaaagaaga aaaaaataag aggaggaaaa gaaaaaagag atgagaaaag aagaggggag 300  
 tggaagaatg agaaggaaaa aaagaaatga aaagaatgaa atgaataaag aanaaatant 360  
 taagagagag aaaagaatan taaaagagga ggaggagaaa ggggaaggaa attaaaaagg 420  
 aggaaaagaa tgatagaaaa agatgaagaa gataggggaa aaaggaaata gagggaagaa 480  
 aaagagaagg ggaaanagaa gagatgatag agnggataaa aaggatagaa aaagagtgat 540  
 gtagaaaaaa aaaagagagt gagcg 565

<210> 28373  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28373

agctatctat cgtcgactt cgnanaacgn gaannatana gtaatagagc tgggagagca 60  
 agacaaggag aaagagagga ggntttctgtc cttcngaang aaggcagcga acgagagcac 120



gagtgtctctg ggcataccta ataactacac acactaacc c tgtggaatga aaacagacgg 180  
aatcattcta taccaggact gagatcggtc gtttatagac agatatatat tattaacact 240  
gcttgattat gctcgcacaa ctaacctaga gctgatcaca aaagcatatg tctctaccgc 300  
tacttgatct aaagttgaca ccgcgggtca catgtgccgt gtcgagatct aataatcaca 360  
gaaagctcgc ggaacacacc agtattcata ttcgatacgc atgagcggca catcagacca 420  
gaagcaccat ccagaggcaa gtaacaaaag cggaaacctcc ctgtatgcnt gtggtgctta 480  
tacgacgaag agacctttgt atacattgaa caccg 515

<210> 28374  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 28374

tttctttata tgtgcgggtc tgggagacga aggtcaagtg tgtgcgatat gtgaagatga 60  
tggtccaagt acttcggatt tgggtccgacc atgctctcct gatatccagc tgggaaattc 120  
gcgagtggag gaacgcctcg gcatttacgc aacaagcata atgcagacct ttacggtttt 180  
aatagctcta tagttgggac aaatggactg tatggtttga cggagcgtca aacattctat 240  
gtcatggcgt tggggcagtg atgatctctt cggacaatct atgtgtacct ttcacagcca 300  
ggctaggatt cgactgcacc aacagcat 328

<210> 28375  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28375

ngacttttgcg ctaaagtgtga tttatacatg antttcgttt tttttgatcc aattcgggca 60  
aaaggggatg agggcaatag ggattttcaa ctctgcctaa tttgtgcagc aaaaagctgt 120  
caaattttgt gcatcagaat ttggctcttg tgcataaaat gtttgtgtat tgctggttgt 180  
ggaaagggta ttacatattg ggttctggac atttctaata gatcccagcg gtcaaaatgt 240  
agatttatgt actanggatc tccagtaaaa ttttcaagtc gatccaacgg tctacgaatc 300  
ggaacgaaga aaatgttact gcgggtattta agtatagaaa gctgtcgtat tggaatgtga 360

tttgggcaaa gattttctgcc tatgcctgt tctcttcggt ttggatcaat tatgatgtta 420  
ca 422

<210> 28376  
<211> 420  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28376

tttaaaattg cacatatata tggtaacagt ttttgttgaa ttttgcataa aataaacata 60  
gtttataggg gaaacaggaa gccacacct aaacttctcg cgaaaagtag ggcaagatca 120  
ctagcatgat gaccatgtca gaggatctng cgtaacggat tccccacaca tagaataaaa 180  
aagtgacca tcttatgtac caacgtgttt gaagggacag cacagttcca aacatgtaat 240  
aataatattc taggcagtca aagtnttcaa acacttttac tctntnttgt ccaaatactt 300  
ggatattntcc cgagtccaga cattaacatg gactacccca ttgaaattca gaccgcatgt 360  
ntataaaagt ggtctttaat canacctgct aacacaactt ttcttttata tatatatata 420

<210> 28377  
<211> 343  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28377

gaaagtctca tttatttaaa cctttgtgtc tcattcagaa gatcgacaac acttttaaata 60  
aaacttggcg gctaatttct taatcatatc caacaacaaa atgtcacttg caactatctg 120  
gatctgctan aataataaat aaataaaaga ggacagggaa catcttatct gtgagttccc 180  
agcagaatag anaagcccaa cactcattta caaatatgta tgtaattaaa acgattggaa 240  
gaaaggaaga tatggacaaa caagaaattt atctagatga gctttcttaa ttattattct 300  
ttntacgtta attcttcaaa gctatctctc ttatgataaa ata 343

<210> 28378  
<211> 561  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28378

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agctaaaatg atggcatcgc tannnctnnc aanaananch aagnaccng cgagcgctct 60
atagancgcc cgccggcatg caagcannat tttatcanat taatcggana cagcacaaga 120
gtgggggtgtt gataaagcat aacaagactc ttctgtgatc cgggttaaag gatacacatc 180
tattgtcaga atgaagaaat gcnnctcana acaccattta agaaaaggct agccagatgg 240
agcctaagaa gaaaatgtta taaacctggt taaggatacc aacatganac agtgtatttc 300
atctttacac cataaggcac aaggataaca ataagttcca atgccagaat agcggtcgtc 360
accctactgg ctgaatctca acactatgca agtgtcaatg acgccaatcc ctgtgtagct 420
tccatccctt actttgtgtt cattgatgac atatgggagc ttaattatgt gaaatttaca 480
gtatgtgttt tcaaatgtaa atgcgtcgac agcaacaccc gtgggcgcac cgatgatata 540
ggatttaccg ttagatcta g 561

```

<210> 28379  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28379

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tgcaaaattt ggggggaatg agttggcatg ttagactctt acatggcaga gtgtgcctta 60
cttanttgac ttatctagct accacctttg aatcttgtca aaagtctagt tgaatcctat 120
aaaatatttc ttgggtgggac agcattattc gtgatctatg aatcttggtt ggaatgaggt 180
ctacgagaag ggtgtggggg tttcatgatg acaaactctt cagttcttca tttgctaacc 240
ttttcatgaa tcctttctgc tatagaaaat actgagcaat cactgaattg gagtactccc 300
ctaaagat 308

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<210> 28380  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28380

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agattggcgc atagcgcttc ctttcctgct aagcccagct taaaagctca agttacaaaa 120  
ttgatctggg gcttacctta ngatagcgcg cttagcgctg ctacaataaa aaattttcca 180  
gagaagaagt ggcgcttagc gcatcatcca cgctaagccc actgcttata ggtcaattac 240  
agtgaagatg ttgggcttag caaagtgatg tgcgcttagc tgaactattc agccaaccaa 300  
tcaggggact ctgcgcatag cgcgag 326

<210> 28381  
<211> 295  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28381

taactaaata cattccactc aaatgatgac aaccngcatg acaaaaccat gacattaagg 60  
gggaaacaga aaggctgaga agtaacacta ctgcacaaag acattgcagt acaggatagg 120  
gatggatgtc caacaatagc agactatata taattggctt tttaactgct caactctcta 180  
tttgaaatat tagctangga ttcataccaa aatattcagt gtcagtgaat gacattttctc 240  
ttacacatat gccatatttt cttactacaa acaagaactt tacgtgactg gaaat 295

<210> 28382  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28382

attaacccca ttacgaatca ggtggatttg taaggcttct acggatcaag ttgatctata 60  
aaagacttac ggatcaactt gattcataag ccttttacgg atcaatttaa aggtttaccg 120  
attaaggata tntcaatttt attttcctta atgtngngta caccaacaat aatactagat 180  
acatctaaca acacccgtga aatttcagtg tttaatggac acatattttt atgggtggaa 240  
gaacattgat atcaatcatg ctagttgtca gacttcta attagagagaa gaaatgatag 300  
gtatgataag aattaccact aataacaaaa agaaaaatgt gaaatgttaa taaaataatt 360  
anaataaata antaattgtc tatttttatt cgtatattag tctcatg 407

<210> 28383  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28383

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 ggaggagcca ggggaaaaag gaaatatgca cttattgaca ccattttgag aaagttgcct 120  
 catatgctag taagtaaata ttattcataa ttataatatt gaatgtagtg ggtggactta 180  
 taaacaaact cccaattcct tatactttaa cagctactgg ccgtgtaaac tttcttgcac 240  
 tgccatcttt tacgcgaggt gtattaatag agatataana tttcacctta aaatttttaa 300  
 acaatatttt catcctttta aaa 323

<210> 28384  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28384

ttttgagcag ctgagnatca ttttcttatt gatcccctac ctgccttttc gttacctcca 60  
 tgtctgcttc tctcgaatt gggtactagc tgcttgatta ctatagagca ttaaaccaga 120  
 ttctgcttga tggatacaaa gtatgatcat gggtgattga aaatgtgaag atgaaagaag 180  
 gcgaaaagaa gactatgaag caggaaagag acagcatacg tctatgtcat ctgaatagca 240  
 aaatcttgta ctgcgacttt catctctat 269

<210> 28385  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 28385

agcttgtgtt aataccttcg accaaacacg gccgtgtgac aagagaacct aacgattcct 60  
 aattatatgg gccatcaaat ctatcatgtg ttgacagtaa ttgattaagc ccatgaatct 120  
 cctcggggcc gtacacactt cggccgtggc ttttgctttg gctaataagac gcgggaggtc 180

ttgacttcca ttcaagggtca aggcgaacct atccatccac atagtcgctt cttgatgcaa 240  
 tgcacatcaatc accctccctc ttgcttcttt ctccggcatac acttgtgcaa aatcccttcac 300  
 tagcttttgt tcatggggcca tagactgggt caattcttcc ttgtattgcc ctatgatagc 360  
 tagcatgc 368

<210> 28386  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28386

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 catcatcaaa atcttcatga tgtacattct ccccttnttt gatgatgaca accacctgta 120  
 ggtaggagc aacaaaaaag aaaaaatctc tatttgcata tagtttactc ccccttggtt 180  
 ttgcaatgat tgcttatatg agacagttga agatttcata tttttcatat gtaaacaat 240  
 tgtctcataa acaatagata atttttctta ctattttatc ttttatcttt ctctccccct 300  
 ttgtcaacat caaaaacaaa tcatgaatag agaggagaaa gatgttacca cttggtgcaa 360  
 tgtatgagaa tcaagtaata ccaaaggca taaaacaat cattcaatat taatcaagca 420  
 aaaacaagta caatta 436

<210> 28387  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28387

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 ataatttata ccactattta aaataaatat gtccctatag ttactccaac attatttttt 120  
 tccctaactt taaaactatt tctatatata agttctgttt gaaaacactt ctgaaccttt 180  
 nttggtcctt gtctttgaaa agctttaaca ttggtaatag gcgttgactt tgacgtgcat 240  
 gtgtgttata tgttatagtg catatgnttg cactatatct atgttttagtc tatgtaatgg 300  
 catanattnt actttttagt ttctacacta aaaaatcata tatttttagtt cttatacaaa 360

tacttttcaat tccatttgga tccataccat ntaagaaaaa cttaatgtng ttagcattga 420  
attat 425

<210> 28388  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28388

tataaaactnt gacatattta acttttaaata cgtttgaatt cttttttatg tnaaaanata 60  
aaataagaga gtgataatga tttttcgaag tcatgagaca atgtaagaaa aactatacat 120  
gcgaatatca tttctcaagt tactattccc canatcatac antttgtaaa ctttanacac 180  
tttctgttga tccctttgca natgtaataa gaaaggcaga taacaagttt gaagatatgg 240  
caacgattcc atgccaaaat ctgtgggaat gttatgactc agcttttagcc attagcaagt 300  
catcatcaac ttatttggcc ttttcttnt ccaaactgaa ttattaatta ttaatacatt 360  
acaaaccgta ctntatttta ctaacattta aaaatctaata tatatcttaa ttaatttagc 420  
ccggtctcct taaaaatggt atttagaaac tttnttttct aacaataaca 470

<210> 28389  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28389

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ctgcatgctg cagtatcttc aagacctttg atcacttgggt aagcgtgcaa ttccattggt 120  
cccatcatt ctgcttccat ggattgggggt ttttggattg aactctacag cgtcattntt 180  
gcgattagat ctgcctggat tatggtttaa taggtaatga gctagaagag tatggagtgc 240  
taagtgaatc ggtcaatcat ggatagattt tgtggctcgc atatgccact ggtttgccag 300  
atggcgcttg atccttatgc 320

<210> 28390  
<211> 404  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28390

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ccatgtgcc a tgagatgcta gactaaatta attgctgatt tgttatcaat caacaacctc 120  
ataggactac aatcccttaa gtgcagttct tccattaaag ctttcagtca tagagcttga 180  
cacgctgcc a tagcagcaac aatatattat gctttacatg ttgacaaaac aactacactc 240  
tgcttctttg agcaccaaga gattagtgtt gttccacatt tgaaaacata tncagcattg 300  
ctttactatc atgcttatca ctacaccaat ctgaatcatt tataccaaac actgcttctt 360  
ttatattctt ctgaccgtaa ggatataaaa tgccaatatc caat 404

<210> 28391

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28391

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agcaggtgca gcaatgtgga tattgtgtgg ccnccttgc attgatggaa aaacagcaaa 120  
attgatcttt tcttcaatgt catattgatc actatcatgt ccctgactta gaagtatccc 180  
tctcttcctt ggctatgtac ccttacgata aaaaattatg cctcaccttg gacctogaag 240  
actctagtga gttgtcgaag taacaatgtc acaataatca ataggattca cacactcctg 300  
cggagacaac accaccatac tattaagaa ataatgagca t 341

<210> 28392

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28392

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gaagcatgtg taacacttgt tgtaactttg aggaatgaga gtcttgtgag acacaactca 120  
nagttcaact tctctccctt tttcctcctt caatttcgtg ctccccctc tctctttctt 180



ttcctccata taagcatcct cttcaagctt cttatccaag gctcatcttg gtggtgaagc 240  
 tcctttcttcc atggettatt ccctagtggg tggcgccctct tctcacctct tctcctttgt 300  
 cttccgctgc atctccatgg tggaaaatca ccatttaagg acctcattga agctcaa 357

<210> 28393  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28393

acaccaccag gcaacaacca gaaaaaaaca caaaataaac tanncnntna aaaaaagcgg 60  
 tgacgctcca cgccacaaan anaaaaagag annngaaang aagaagaaga ggaatttaat 120  
 ttaanagaga aaaggggggg ggggaaaaaa aaaanaaana aaaaaaaga gaaaaaagaa 180  
 agaagaagag aaagaagaaa gagtaggaga aaaaaaagaa gagagataag agaaggggaa 240  
 aaaaagagaa aaagagggan gaggaagaaa gaataaaatg gaaaagagga aaaagaagga 300  
 tgagagaaat gagagagaaa ggaagatgga aaaagaaaaa aagaagaaaa aagagaagag 360  
 aaggaaaaga gaaaaagaaa agaaagaaaa aaaagagaag agaaagggga aaaagaaaaa 420  
 aagaagagaa gaaaaaaga aaaggc 446

<210> 28394  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28394

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 aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180  
 accaagcttc catcaatcta tctctgcgcy tttatcactc attgagcctg cggataaccg 240  
 catgtcattg ggcccgcgcg ctctggatga caaaagacgc aacagacgat gttagtctct 300  
 gcgtgctatc atgctntgag tcttatagat agcanaagta ttttaaaagt gcgggacaaa 360  
 acggttgctg catgtcatt 379

<210> 28395  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28395

tcatcccact tggacgattg agaaaactgg ggtaaatgaa gagggtgaga atgagggaga 60  
 agcccacccct gtgactacca ttcttatacg gccaaagtttc ccaccacccc aacaatgtca 120  
 ttactcacc c aataacatac cttctcctta ccaccgcga agttatccac aaaggccatc 180  
 cctaaatcaa ccacaaagtc tgtctaccgc acttacaatg acgaacatca ccttttagcac 240  
 aatccataaa caccaaccaa gaaatgaatt ntgcagcgag aaagcctgta gaattcacc 300  
 caattccagt gtctttatac tgacttgctc catgtctanc ttgatattca at 352

<210> 28396  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28396

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 atcctctgta gagacccttc agaccttctt ctctaataac ttctgaaagt gccgctgcc 120  
 tgtttggcgg gcacttacct tgcaaagcac ccaccatcag gcgcttcctt gctacctgca 180  
 aggggaagct aattgtactg gcagtaaaac ctgcgcgagc ataaagaagt cagatagcac 240  
 aaatcattta tattaccaag tataaaatgt gattaataag tgacacgctg ctgtgaaaac 300  
 catgtccgcc catcaaatag tgaatggcta ttctttcanc aaatatntca tgctatcatt 360  
 tgcttcatgc aacatgggtg tgtgact 387

<210> 28397  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28397

ggcgactagc ctagtantac gccatactna aacnnagcct caagggttggc tgatgataga 60  
aaggaaccac cttntnccag ttcctttttt tgatggaggg acggnagnatc gtgcggccgc 120  
aatTTTggga acctaccccg tgcctccca tgcgtccaag gactttaaaa aaggctacct 180  
attgaggggt ggaccaaaaa ggatgagggg agtgtcgtaa agtgcagtca ttggcacgac 240  
gactcntaag ggcgatgcta tatgttccta tcatagagtg cccaagtctt acattaagta 300  
atatgggatg cttggtgagc acttaagcga ctnggttcta cccncttcat agctggctnn 360  
tagggaangt tcncangtg catgggtgcc tttcaattta tggtagggac ttggctgtta 420  
tgggatgcct aactcccata gcgagtagta tgggatgttc agtggagtcc tgaaacggct 480  
tggtttcccc ctgaaagcca acttttaatg gagg 514

<210> 28398  
<211> 231  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28398

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aagttgaggc gttgctgaat ccgaccctg attatntcct acatcattta tcttgctagc 120  
cttgtaacct gtgcacagtc aagtagtttt cttagattt tatgtaatct atgcaccctt 180  
atangtcctn ntgtatataa tatgtgcatn tatcttcttc acatatcggt g 231

<210> 28399  
<211> 321  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28399

aggacctcaa ctagggaccc tacaactaat ggtgtgaaca tgtcattgtc cttttatggg 60  
tgtgcatgtt gtgtgcccat cagtttccca gaattgtttc cagtattgaa tttggtatta 120  
ttcttactgt tattcacatt ttctggttta aggccaacca aatcaactgc ttctttggca 180  
tcatctgctt tggtaaggcg cagcctcttc ttatgtctga taaaaacggt agtcatatga 240  
ttttcatcaa gttccangtc atcatctgat tgcttggaaac tcccactaga cttcgagtcc 300

aattgggtat acatgtacct g

321

<210> 28400  
<211> 115  
<212> DNA  
<213> Glycine max

<400> 28400

aaccccaaag aaacaaacga ccgaaagaaa aaaaccaaac aacagaagga acaaaaccga 60

aaaaccgaca caagaagcgg acagcagcgg gccaaagaga agaaccaaga aacaa 115

<210> 28401  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28401

acatactgna atcgattacc agaggagatt ttcagaaaat attctcaaca gtcacatctt 60

tntgtgtggt tcttgaatgg ctatcaaagg cctatatata tatgtgactt gagacacgaa 120

tatgataaga gtgtttcaga acaacaaagg tcttatcctc ttagaaagaa aaataaattt 180

atcctcttac atattcctta gccaaaactc ttgtgattaa ataaggaatt atttgagtgc 240

tccaattgtt caatctatct ctntatagag agaattcttc ttctcttctt cttcattctg 300

aaaagggtt aagagactga nggtctcttg ttgtgaaaga attctaaaca caa 353

<210> 28402  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28402

agaggactga atccttttagt acgnacacta tnnatactca gcctngcagg attgggtctt 60

tgccagtgaag aggatcgatg tgggtctgaa tanaggcaaa ttaanccatc ctgctgggac 120

gagtgagaaa actggggcaa atgaagaggg ggagaaaaag ggagaacccc atgctgtgac 180

tgcccttctt atccggccaa gtttccaacc aaccacccat gtcattactc acccattaac 240

aaacctcttc cttaccacc gccattatc cacaaggcc atcccctgat caaccacana 300

gcctgtctac cgcactttca atgacgaaga ccaccttttag cacanaccaa aaaacaccaa 360  
 caaataggat tttgcagcan anagcctgtn gggtcacccc aattccgggtg catatgctan 420  
 cttgatccat atcactcata atcaatgtac catacccaac caagttctca cctcattttt 480  
 gagatcactc aaccact 497

<210> 28403  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28403

tcacatccat tcttcttgaa ctgtgtgtaa aattttcctt gctgaaaatg gaaattgaac 60  
 tactctacct tgttctgct tcattgacta gcacaatata tctaaacaaa tacattaaac 120  
 ttaccttata caaatcttgc tatacttctt cagcagcatn tactttatta gattcaatat 180  
 cccaagttac tcatgtacga gatagcaagc ttgaagattc atgatgttga agcgtaagtg 240  
 attaaactta accttcaacc tatccacacc at 272

<210> 28404  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28404

aatcaactac taggtgatat aattgattac ttctctctta aaaagtgttt cagaagtgct 60  
 caagaacact ttaatcgatt acttctttga aataatccat tacattgtat atttgattga 120  
 ttacaggcgg ttataaatgt tctctctata aatagccacc ttgtgttcta acttttaaca 180  
 acttttgtgc gtgctacaac tacgagtnga aattagtcaa acaaagaaga gaagaaaaag 240  
 tgcttacata caatgtgact cacaacttct aatctttgat tatgaagatc atcttgtgaa 300  
 aagtgagttg tgaatatctc ttgagttcaa gactgcactc attcattcaa gca 353

<210> 28405  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28405

ggatggacct tatcaggtct tggaaatgat taatattatg cctatangnn ggacctgccg 60  
 cgagagtatg gagtcancac cacttttaat atttctgatt taattccttc tgaggtggag 120  
 ctgatataga ggaggaggaa ccaacagatt tgacgtcaaa tcctcttcaa gggggagggg 180  
 atgatgcaat cctccctatg ataggaccag ttaccagagc catgagcaag atgctccaaa 240  
 aggattgggc tagagttgat aaagaacgcc ttacggttct catgaacctt atggtatatt 300  
 gttgagccca tggggccactg ttgggtccac tcttctttga aataggagaa taggttgttt 360  
 cttatttttg gccttgtatc ttggcattct 390

<210> 28406  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28406

agcttttttt atatttaata ccattacgag aataatatgt tcttatgang ggatctanat 60  
 ggtcatgtac ggagaacatc tagaggatat ganggttcat atagggttta cgatctanga 120  
 taaggaaatg tanaaggtaa atctatccta gatttcttat tagctcatga cttcacaata 180  
 gccaacactt atagcttctt ttggtgttgc tttgtctgct tactgtacta angaaattaa 240  
 ttgtgttatt gctggtgctg gctattacaa tacagaactg catgtcatag atgggattcc 300  
 acaacttacc tctgttcgct caagctatac tattgaggtt gggttttatg acttctgcc 360  
 tcccttttca canttttaa atcttcttct cangtaattt attcacttca tggattccct 420  
 tctctctcct ttc 433

<210> 28407  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28407

ctagagatgt ngctatggct accgaactac acaagtgaac cccttagagt aagggatgag 60  
 ttattcacac tttgngatta gaatcaacat gtgtaacgat ctataaggat caatttgggt 120

tatttttnggg ttgctttatg aaatcaatth ttttctcatg cctttaatca caaatthaact 180  
 gtgtttgatg gaccaattga tgttccgatg caaaattatt gtgaaattga tgtgttctat 240  
 ttccttattt tgcgcttttag aaatttatat atgattataa tgngtttctt tcttctgtta 300  
 tcgtacaata aattgacgta tgatggttta tatcataatt gagacgcttc agttatgtgg 360  
 tcaaagaatc tattgattta tatata 386

<210> 28408  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28408

agctaagatg gtctcgaatg gaacgagtca aggggtggaaa gcatgggtttc agaggataaa 60  
 tcgaacgctt gtcanagatc aaagagaaag ttgaccgaac agttgagtat aacagaagaa 120  
 aatatgttga caatcattga ccagtataag gagaaggtaa acctagctcc tattcttgtg 180  
 cagagactat aggacgagca tgcaaaggta tcagctctac aaatggaaag ggaagcaaga 240  
 gagagagtga tagaatcatt gcacaaggag cctgtgaaat ggatggatag attcgctctc 300  
 actctgtatg ggagtca 317

<210> 28409  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28409

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 antatcaatg ggtggatgat tatcataatg tctacctata gagcataact cgntcagaat 120  
 ggtttacaag gtgtttctta cgtgtgagtt gagaagacat ctggatttat tatcatctat 180  
 ccattgggtcc ttgtggatct cgttcttcta agcatctaga ggaatgtgat tgcttttttc 240  
 tacaacatct cacatatcaa tgtgattgca ctcaaagaag gctatcatct gttccttcca 300  
 atagtcatag ttggctccct tgaacatggg attatctgta ataaatcctt cttccatcat 360  
 ttcaggaatt tcttttccct tctctatcaa gagcttcacc cagaagccaa gctctgatac 420

caactgaaac acactacgta acgtggttga ataatgtg

458

<210> 28410  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28410

agctattaat ttgtatgtcc gattcaagcg cataatatat cgagacgctc gaaattaacc 60  
aacggaagct ctcgagaaat tcaaattggtc ataacttnta actcggatgt ccgattcagg 120  
cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaattgt 180  
tcataacttt tcacacggat gtctgattca cgcgcataat atatcgagac cctcaaaatt 240  
taacaacgga agctctcgag aaataccaat ggtcataact tttcactgag atgtccgatt 300  
cacgcgcata atacatagag acgctccaaa tcgaacaacg gaagctctcc aaaaat 356

<210> 28411  
<211> 334  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28411

ctgactcacc atangacctt gacccattgg gttgattgtc aatccttacc ctcggaagca 60  
gagaaaagaa tagaggggaa atttccattc aaagaaaaag agaaggacaa tttccaatga 120  
aagcaaaaaa aagaaaagaa agaaaattcc ccaatcaaag agtgtgagaa agcaaaaaaga 180  
tnagatagga tattcccaat caaagaatgg gagaaagtaa aaaaggaaga agaagaagga 240  
aagaaagctc ctgatcaggg atcgaaggan aacagaaga tatgtgcaga gaggtctttg 300  
gaccggacaa tatctgaaca atacagaatt gtca 334

<210> 28412  
<211> 150  
<212> DNA  
<213> Glycine max

<400> 28412

gaaagtattt gaaatttgat atgtaccatg gtgcatgtat aatcctctag gcattggata 60



caaacagga ataacgtgag gacacagcag atcatagaaa gagtgataga tgactgatgt 120  
 ttcacaagcc tatattgaaa aaagctaact 150

<210> 28413  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28413

ctgccataac ctgctctatc gtttcccttg cgcaatttct gtagaagaag tgattaatga 60  
 aacatctgat aagaacatta tccttgaaat gcgatcttca ttctattatg acaagcataa 120  
 ttctttataa ctattgaaga catcaaatnt tgtttggtgt atatgcacaa atttaacaca 180  
 caaaaactag ccaactggtga tgctacagat gtaccaggca acaaacataa gttatcacca 240  
 ttttttta 248

<210> 28414  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 28414

atcttttggg tggacatctt gacttgctat ccaatctgac attcaccaca gattcttgcc 60  
 ttcttctatt ttcagaatgg gaatgcctct aacagctcct ttgtcaatga atttcttcat 120  
 gcctcttaag tgcagatgtc caaatctttg atgccatatt ttcgacttca tcttctttgg 180  
 agaatacata tgtggaggag taactggctt cttgaggtgt ccaaggtaac agatgtactt 240  
 tgatctgctg gcctttctta gaacttcact cttctctttt gcaccaacat tcttgacttt 300  
 gtgaagttac attgaatcct tcatcacaca gtgactga 338

<210> 28415  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 28415

ataagcatca gagtattaaa tacaataagc caaactcaca aacaagagat aatcaaacca 60

gattccaaat aactgaaaat gtcaacaacc acaaaacatc caagactgaa gtttaaattc 120  
 cacaagataa ataagcaaag tacttagcat aataatgtta attctaagaa actaaaagcc 180  
 aaaatacacg gcttataaaa gataaataat cataacctat aatctaagaa gacggaggtg 240  
 gtggtggaag atcgaaactc tgacgaatgt atgcgacatc ctcttcaagc tgtgtaagac 300  
 gaatgtccat accgcgcaag cgtgaatcta acgagtcgaa gcggtcacca acatacgaac 360  
 gaagaccc 368

<210> 28416  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28416

ttctttaatt cattatggat gcataagcaa agagcattct aatggcttct aatcttgcaa 60  
 ctggagcata tattcttcat aatctatacc ttcttcttga ttgtatcctt ttgcaactaa 120  
 tctagcctaa tttctaataa ttatgccatg ttcatctcac ttattcctaa ataccattt 180  
 tgttccatg atggggtagt ttttaggtt ctctactagt tcccacacat tgtttctttt 240  
 aaactgattt agttcttctt gcatagcaat tatccaatga tcctctatta tggcttcatt 300  
 tatattttta ggttcaatca gagacaccaa agccatatta ttgcatanat ctttaagaga 360  
 atgtctagtt gttacccttt ttgagatata accaataatg t 401

<210> 28417  
 <211> 275  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28417

tattacagtc ttcaagggat tgtattacat aacaccgcct cctgctaatt acaactgcat 60  
 actaacattt ggggacaaaa ctgcacatgc gctcatttgt attctaaacc atacataaca 120  
 actcacgatg aatcttgact acctacacaa taggtgtcat tcatgctttt tcagtttgct 180  
 actnaccact gcaatcaagc tatttctttg tgacaaatga ttcaataaag gatataattg 240  
 aaatgttctc acatacatgc acatattatt tattt 275

<210> 28418  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28418

gagctatgat tattttatattt ctaacaatgg aaatcatagg acggcactgt tcatggaatt 60  
 ataacaagtg aattanaagt ctcatgcgcc aatgtcacat ctatcatagc atttccttaa 120  
 gaaagggttaa gcctctccat ctccagcatg atcatcatca tagactggct cacctgacac 180  
 aaaatgacat tcaacccaaa cataaacaca caccgggagt gagttatcac atttcatata 240  
 aaatactaataa aaacanagac ataagcaaataa ttcattaagt aaacatttat cacatagttc 300  
 aacttaatac agtcctcgtc acttcacat gatatacaatt taagtttact ttgcgatcac 360  
 caatcacatt acacatgaat caacatttga cttcaaac 398

<210> 28419  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28419

agaggactga ccttgtagta cnacactata natacacagc ctagncattt ctttaaataa 60  
 atntcttgta caacatgaag ttttgncttc atgtctactn ntcacctttt tttgatgagg 120  
 aagtgcattt cttctttctt aactaccaat aattgggtcat ctttaataatc ccctacaaac 180  
 ccaaaaccca aaaagaaacc ctttataacc ccacatgggtg gacattgtta actttcacca 240  
 aacaagatta aaaaatatgt ggtgggtcgg taattaattg aaacttagct gagcagaaat 300  
 tgactaacgt aactccaaca tgagttcata atctgaatgt ttgaatgaaa caatctgac 360  
 gcagagaggg atagtcttcc tcttgacctt gtgtgagttc tcaagttact acagaaagca 420  
 cttgattgga ggtgaatcta acctgaattt aataaataaa taaataaaac tgaatntgaa 480  
 gaaacaataa attcgccaga taatattcga aataaatgct tgtg 524

<210> 28420  
 <211> 361  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28420

tgctggtaat cgattaccat atatgtgtaa tcgattacac agtgcaaagt ttgaattcaa 60  
aatttaatat ctgttgtaaa tcatttttgg ccaactggtaa tcaattacat cctctggtaa 120  
tcgattacca gagagtaaatt cttctgaaaa agacttttta acttanattt cttggccaac 180  
cttttgctac ttcaattatg aattcccttc ctatttaata taccattcct aagactctag 240  
agactgtctt gatcatccat cttgaatatc tntaatctct ttgtcttgaa taaagctntg 300  
agaagcatgt gatcctttgg catcatcaaa acattcagct tgatcctttg ctacatggat 360  
g 361

<210> 28421

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28421

gggattttct acatagtctt tagtagtttc cttgattaac tacagctcca ctgtccgtat 60  
gattaaatnt agttacaacc atagatacct attaggtggt cattactata gntaatatgc 120  
tctaataata cttactagt ataaatgtat cctattatgg tcttntatg tctcagcttt 180  
ctttaatact ctataacttc aagttggcaa cacaggccag cagccaatta catatggatt 240  
agtctttttg acttgtttgg agaatcacgg gtttctctcc acagattgga gcagtttctc 300  
atgattaact taacagtttt tcaaggattg aatatgntaa ataacttgca gcagatgaaa 360  
cctaacanac ccagaagtga tctatgcaat attccaact 399

<210> 28422

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28422

aaaaactntt taatgcgtat cttgattaag tcttctcttg attcttgaat ctttgagtct 60  
tgaatcttga atcttcttga tgaatcttga aatttatctt gaaatcattc tttgggcttt 120

ttgtcatcat ctttgtcatc attaaaaacta cttgaatcaa cttgattcat catcatgaag 180  
 cttgcttcta caggtaatat aactacaccc aatgtatgac cgaacgtagc tctgatacca 240  
 cagttggtag tttattagat gatagttgat agttgtagag aattgtttta gaagaacgct 300  
 atgtcattga tttcttgat gatcaattac aacataccaa tttcctatat ataggctc 358

<210> 28423  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28423

gaacttctct gtaacaaagt cttggagggg gtaaacaaatt cttttattta attcataaga 60  
 acctcaccta tattctcaaa ggcataatac aatttcccat catccttttt aaccctctga 120  
 ttagatttta cttttggcct ctaagatccc tttgggtgga aaaaagtgtg tttgggcatc 180  
 gtgtattagc caatttgcac aagaacattg ttctcactta ttttcgtcct gcaacaagac 240  
 atcatcaaga gtatnnttca ccaactatta ttcagctacc acttcgttag tctacatagg 300  
 agtttgaagc ttctcaatca ttttcatttc atatcttatt tgnttctcca atctttcata 360  
 tntttccttg cccatattat tgaagaattg ttcctatttt aataagattt cctaccacac 420  
 tatcattgca acaacaagaa tgcttaataa 450

<210> 28424  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28424

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 cagctagcta tctnttttaa caatatgaaa cttaagtttt tgtgatggtc ttcaaattac 120  
 aacaatgatt attattgttt tttttaacan atctatatnt ttntattaca acgtagctaa 180  
 tgtggtttat cttgaattca aatttcta atcaatcttt aggatgtttt agaatttaaa 240  
 gatagtaccc aatgttttta agatgtttat tttagaaaat aatgtgttac tttatgttaa 300  
 gattatgatt ttctataaaa cagaggttct atganacaaa attaagcatg gaatagaata 360

caaaaattac aacatttaca tgaaatatta

390

<210> 28425

<211> 289

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28425

gaacaacctg cagtnccacat gcgtcgggtg agatacagca gccctggacc accaccagta 60

atgatcgtgt atcttggatc ccaagtaagt agtttcttct tttgatgttc tttttcaaac 120

aaaagcttgt ctaggctccc gtttgggtaca tagttgtaaa caatgaggag ttcacacctc 180

ttcctgcacc acccatgtaa ctgcaccaa attctatgct ntagttgtgc catgcctgtt 240

atttctgaaa caaattctct gattccctgc cttgaatcag gagcaactc 289

<210> 28426

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28426

ttcttatgat catgaaacct ttctccacca agcgagagag taacatcaaa tgattcctca 60

tcctctaaca acatcccaaa atgttcacca atatcagatt cangaacctg tattgtgtnt 120

aactgagaag aatctatgga cgacactaan accgcaatag tgcaatttat cttcaagcaa 180

tcacacctga gaaaatttga cgtctcaagg tgtctccgtt tgaaaaaccg cgtatagccc 240

ctattacaca acaagtgcac cattgatcac tacctaattgt acaccaacaa aaatggatac 300

cagagctaataaatcatgat gatatccaat catatcacca aat 343

<210> 28427

<211> 188

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28427

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ctactagagg ataagccatg anaggagaag cttcaccacc aaaagagtgt cttggataag 120  
aagcttacag angaagcttc aatgaaggaa gagaatgaga gagatagagt gatgcaatcc 180  
taccctt 188

<210> 28428  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28428

agcttgttgt acggctggac atgatatatg tcagggttgg gtttagttaa aggataaaag 60  
gggatgtatc atgagatgtn ctgcgggggtt tgacctatgc gggcgccgaa gtgacagcgt 120  
gggcatctcc ctcttactc tntgcaccag ttgctccaat tcttttagca ttggcacttg 180  
tggaggaaac gtaatcgaac ttccctcttt tcaaccatac ttcaattctt tcctcggcga 240  
atacttggtc cgcgaagctg gacggcatgt aacctaccaa cttctcatag taaaacactg 300  
gcaaggtgtc taccatcatc gtgatcatct ccttttcgac catgggaggg gccacttgtg 360  
ctaccaggtc actccatcgc tgtgcgtatt ctntanaggt ctcaccttcc ttcttgaaca 420  
tattctgtag ctga 434

<210> 28429  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28429

gagttcctag cttagcccat aatgttttcc agaagtggta attgtcttag tatctttatc 60  
tgacacagtg gtcctatgca aacctaggag tctcacaact tccttgaaga aaagtttgag 120  
atgtgagaag catcatctac catgtggcat ggtatgaagt gtgccatctt gctaaactta 180  
tccaccacaa caaagataga gtctacancc ttttgggttc taggaagccc aaggacaaag 240  
tccatactaa tgtctaccca aggtgtagat gggatgggta aggggtgtgca tagcctatga 300  
ggcatcacc tagacttggc ttgtaaacia gccacacatc tagtgcaatg cttatgggca 360  
tctttcttta tatgggacca atagaacttt tctttgagta agacaagggc cttgtctatc 420

ccanagtggc ccatgagcca ccctcat

447

<210> 28430  
<211> 298  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28430

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taagctacat gagttgcctc gataaaaaca ctaccagac ttcgttaacc gttggatctt 120  
ctcgaaatgt ggctacagc ttcagaagac aattttccac gatatgaccg ttgggatctt 180  
tgcgaaatgt tctgcagcgt gcttgaagct tccattttcg agagcatttc ttatntaacc 240  
atatcagcct ttgtattcgt gtagcttagg aaaaacacca tntctttctc tttctttc 298

<210> 28431  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28431

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tccctttgga tacaatactg gaaggaattc catgcaactn tactacttcc ttaatataca 120  
actccactag cttctccatc ctatactnta tattcactgg aataaaatga gcagatntgg 180  
taagtcgatc tactatgacc catacagcat catgtcccca actagtctta agtaaactag 240  
atacaaaatc catggatatg ctctcccatt tccattccgg aattttctagt agcttcaatt 300  
ctctgatgg tcgctgatgc tcagccttag ccttttgaca tgtcaaacac ctgctacat 360  
attcagctac atctttcttc atgccatgcc accaaaaact tctcttcana tcttggtaca 420  
tcttagtcat tctgggatgg aaact 445

<210> 28432  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28432



agcttctttt ttcattttca agcatctcga tatattacgg gactcaatcg accatccgag 60  
tcaaaactaa ttgtcgtttg aatttactca aagcttctgt attcaatttc tggcatctca 120  
atatattaag ggactctatc gaacatctga ggaanaagtt attgtcattt gaatntgctt 180  
ggagcttctg ttttcaattt cgagcgtctt gatatatgat gggactcaat cggacatccg 240  
agttcaaagt tattgtcgat tgtatctgct cagagtttca gtgttcaatt tcatgtatct 300  
cgatatacta taagacttaa tcggatttcc gagtaaaatg ttattgtcgc ttgatttgct 360  
caaagcttat gtattcatat caagcgtctt gaattattat atgcctgatt agacatctga 420  
gtc 423

<210> 28433  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 28433

accacaatag acttttagctc atatatccgt gtgagtcccg taatatatca gaacgctcga 60  
gattgaatac agaagctcct accacattaa aacgacaata actttctact cggatgtccg 120  
attgggtcac gtaatatatc gagtcgctcg aaactgaata caaaagctga gaacaaattc 180  
aagcgacaat gaatttttaa ttggatatcc cattgagtcc cgtattatat caagacgttc 240  
gaaattgaat acagaagctg tgagaaaatt ctaacgagaa taacttttac tcggatgttt 300  
gattgagtcc cgaaatatat cgagacgctc gaaattaaaa cggaagctcg tacatatcc 359

<210> 28434  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 28434

agctcctttg tgttttttaa tgggtgatttt ccaccatgaa gatgcagcag aagacaaacg 60  
agaagacgtg agaggaggcg ccatccacta tggaataagc catggaagaa ggagcttcac 120  
caccaagatg agcctcggat aagaagcttg gagaggggtgc ttcaatggag gaaaagaaag 180  
agggagagaa agagagaggt gggagcacga cattgaaggg aaaaaaatgg agagaagttg 240  
aactctgagt tgtgtctcac gagactctca catgcttcta ataatagact aggtagctta 300

cttgagaagc tatcatgaga aaacttcctt gagaagcttt cttgagaaaa c

351

<210> 28435  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 28435

ttcgaggtag ttaccggtg aagatcgaag aacgattttt acgtatgaag aacgtcgaag 60  
aacgggcagg acctttgcga aattcctcac ggaaaacgtt acggaaacgt ttcggaagcg 120  
cctcggctta gattttcttc acggagacaa ttgttttcag caaattcgat agagagagaa 180  
gtgcctaagg ggctgaaccc tattcttctt catttctctc cctatttata gcaaaatagg 240  
ggagatgggt gcctcccagc ttgccaggc gagctcagct cgcccaggcg agccaagttg 300  
cttctccag aagcatcaga aactaagtgg 330

<210> 28436  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28436

atcttgattt attatggngt acccatcacg tgtggtacta ggtggcagtc gggcgatggg 60  
gcacaacaag tttttcacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120  
ctccatccga gtcacgtac tcccagtag cccatattct cgtttctctc aacaccgggt 180  
ccccatcaat cctcccaagc ttncacaaca tccaagcaaa acaacattca aacagcacia 240  
actaccacag ccaagaaaac agggcaaagg cagaaaactc tgctcaaaca ccaacaaaaa 300  
tcacagcttt tctcactc 318

<210> 28437  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28437

ttagcacatn acctactctg angcagggtta taacttgtgc tgcaactaac atactactgg 60

aaaatactgg gaatgtcact ggaatttgac tgaattttac tgattttctaa cattggaaac 120  
 attataaaaa gaaaaagtat tggataaatt aaaaatctaa aatcaccaag ttggcggaaa 180  
 atcatgtcag gaaaaaaatg aaaggaagtg gcttggtgtt tgctcaaatt tgtccataat 240  
 tggttattta taccatctag tctanattca atgaaaatat gtaaaaagtg tcaaactaag 300  
 ttcttgatct atttttagtt tttactctac ttaaccatct agtttcttag cctacttttt 360  
 a 361

<210> 28438  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28438

gaggcacgat cgattcgatt gncncncna ncaaanacag caccgagccg ggaacctngg 60  
 agacgaagcg gaggagcatc atatgtttat ccgaacaaac accgcggcgg gagacgcgaa 120  
 cagccgaaca cactacaagc acccgctgga ggaaggcacc accaccaccc ggggccaagc 180  
 gaagtgcagc caaacggaac aaaaggcacg agaagacccc cgacccccga gacagaccgg 240  
 acaggccccg agccaaaaag ccagccgagc catctaagag gccaaaaccc agaacgtagc 300  
 cgaaaacacc atacaggccg aaagcggcac cgcgcacaa gaaaacgcca tagaccatca 360  
 taacgcacca ngtcagacga gaagagcgag cccagcactg acaacaacac gagcagaccg 420  
 cccgaccacc aagaaaccac cggggcgaac ggaacacatc cactctagg acgccattan 480  
 tggcgcgaaat gagaacaggg cggn 504

<210> 28439  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28439

tgcttgatgt ttgtgtgaca ccctttactc cacacatata tgtactaata ataaaaggaa 60  
 taagtatgca nnaattaatt aaatttttaa aacacatnta aataaagcac ttcaaaagag 120  
 tgaaagactc acattcactt cactattatc aaataaaaact tgtcagaaac attnttggtt 180

caaaacatca tgtaattaaa gaaaactcat gctccaatgt cacatcaaca ttgtgtccccg 240  
acgtttcttca gtacaagggt ccttaaagca attcacctag tcatatgctc ccacgaacac 300  
aaagttcaag ataatcacag gatccaaaca canataacac gcggggagtg agttatcaca 360  
ttcctaacta atagtgagaa ataagacaac atgtagatat acatatcata taaacgaaat 420  
acaacttac 429

<210> 28440  
<211> 464  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28440

nctatggagg ttgaatcttg gacctccaag gaggtctttc attggtgatt ttccaccatg 60  
gagatgcagc ggaggggcaaa ggataaaagg agagggggagg caccatccac agggaattaa 120  
gccanggaaa taggagtttc accaccaaga atgtgccttg gataagaacc ctgaaaagga 180  
tgctttaatg gagggaaaga aagagagaag ggggggagcac gaaattgaag gaatanaaga 240  
gggagagaag tggaactttg aagtgtgtct cataagactt tcattcatca nagttacagc 300  
atgtgttaca catgcttcta tttatagaca aggtaacttt cttgagaagc ttcttgataa 360  
acttccttga gagcttcttt gagaaaactt cttgagagct agagctagct acatacaccc 420  
tctaataact aagtcacctc cttgagaagc ttcttgaaag attn 464

<210> 28441  
<211> 353  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28441

agcttcgttt cctcttcttt cttcttcttc tttntctctt tcttcttttc tctcaattct 60  
ctcaattccc tttagtgttg acccttctaa ccccttaaaa caccttccat catacctatt 120  
tataggaaaa tagtcacctt ggggcggttt aagctcacgc caggcgagct gaaccttagc 180  
actgaagtaa tgagctcgcc caggagagct ggttgcttac ctaggaggta attccatggc 240  
ctangcaagg cagatgctag cctaggcgag ctgggggtcta gaaaaatcaa gaaaaagacc 300

cttttgcccc ttcctttgga tcctttggat tcttgatcaa aacactgagt gat 353

<210> 28442  
 <211> 557  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28442

nccgtgaagg gttcagtnnt cccaggttnng tcnnncnatn agnnannaag cngagagaag 60  
 gccagnnnag gggcatnnng ggatcatnan ngcgggtttan tatnntgaac tgcannnnngn 120  
 tnngattcag tncctntagt agtatctcgg cagtacctat anagggctac atccgagggc 180  
 gacgacaaaa tattgtgaat accattatcc acacaatcgt gagaggaaat gtggctaaat 240  
 gggaaacaac gacattgtta taatgtatgt gtaatctttt gataagattc ttctagtttt 300  
 agctatactt agtcgtcttg cttaagcttg tggtatcaag acaaccagta tgggcttgctc 360  
 atgtcaaagc tgtctctatc accttttggt gggatatat atatgtatca tatgaatgctc 420  
 ataaagtcag ctagtgagtg aaccagtttc ctccgcacat gatccaaact tcaagtntgc 480  
 atgagagctg gttatactgg caccatcata gccgacagta gcctgcggcc caggcactaa 540  
 cttaccgcgt tcgaccg 557

<210> 28443  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28443

gctcgggtgcg aggcgataca gtagagctga ccgcatgcaa gcaagcttgt gtcacacacg 60  
 angcctacac actaccttga gcgcccacca taaacgaata acttatcaaa cggctagatt 120  
 gatacacggc ctatcacggt gaactgtgct aacgcgctgc catatacact taatctacca 180  
 gaggcatect gcgtctctta ccacatatct tgacaaggat acgagctaaa ccctggctgt 240  
 acatagccac tatgagacac tggacactcc atagac 276

<210> 28444  
 <211> 291

<212> DNA  
<213> Glycine max

<400> 28444

tagcttggtt gtttttggtt ctgaacagtg gtggcgcgag aaagtctggt gtaaattgct 60  
gaacgctgtg gtaggttttg tttatagtag aatcctacta tatgctatca aaaagaggat 120  
tgctatcgaa tggacagaaa aagcttagct cttttctaag gtgatgattg ctggagagaa 180  
gggtctctatt gtcacataat gacatctttt aatcggttgg ggagcctgaa gatcatgtgt 240  
atgctgagtg aagtctataa aatcatgaat tattgcttca ttatcacgac t 291

<210> 28445  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 28445

aattatgcac tgtctgaatc tactctttgt aattattggt attaactctt agcagctaata 60  
tgggaattgt tactaaacca atatggagat ttctggacga aagatgtggc tggacaacat 120  
tgtatggatc atccagtcta gtcccctaaa ctggaacttt gactgctata tcatttttca 180  
gttgatatat tgggtgagtg tcaaactacg tctaatacat ggacagtcta gcttatttag 240  
ttagttagtc aattcaatca acaatttatg ttgtaaatgg ttttattttc aatgagttct 300  
ctaccctt 308

<210> 28446  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28446

agcttcttat ttcaagatca ccagcccaaa caaaattacg aagccagaaa tccacatctt 60  
taagaagctt tcatggccaa gaataaatgt ggaaagaatt tatcaccata ccattaatga 120  
togagttgat caattgaact ttcccatga aggaagaaaa ggaagttttc taggaataaa 180  
tnttagattt gatcttgtcc taggaataaa tggtagagtc aaggcttacc tacgaaaatt 240  
gggactccaa ggtaggaaaa agagaggttc cccaccttga aaccaagag ggattcattt 300

ccaacattat gtaaggagtc atggaactgg aaaat

335

<210> 28447  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28447

actaagcttt tgtcgacnca caattttaga ggccttatag cttatattag tctcaaacct 60  
gatgagctat cattgcagga gagagttaa catctgagca tttaggacgg cacaacttat 120  
gccagaagtt gtgattagat tcttccatga ctacgctagt gggcctttca cttgccaaca 180  
aaciaataca tttaaagaca ggtgggcagt caaatgtacc aaagcagctg gggcatgaca 240  
atgactaaca tccccaatac ctgcaattat tttatcacat ccaatccaat aattaatatt 300  
agcttaaaca tgttttaagc aatgtggcgg atggtggaat atggcagaag gccaaaattc 360  
caccatataa gctggtaatt gcggcctatg acgccaccac agcgggctca acatgcgana 420  
cctgngtgta aattaaaatt ggatattgca acacagcaga agcaatataa tgaacaccg 479

<210> 28448  
<211> 317  
<212> DNA  
<213> Glycine max  
  
<400> 28448

agccatgatt gattgatatt tttaacaata atattttcgg agtaaaacta ttattattaa 60  
tatgatctat aatattataa ttatttataa gaaattatca aattatttta gtggctttaa 120  
tgattagaat cattttaatt gtttgagata agttaattcc tataaacata tatatgggtt 180  
atatgaataa atgtcttctt tttctcttga aggggcttac aacgctttga taacatgtca 240  
ttgtgatgtt tgtcgaccag ttttggccac atcttgtggt ttaaaattat cttatatttg 300  
aatctttgac attgtaa 317

<210> 28449  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 28449

tcagctatct ttcacgtcgt tctcgtgct gacaacgtct tcgatttcga acttgcacat 60  
actggcctcc actcatccnc gtgcgatgaa tcatgtgttt ctaaaatggt ggaaggagac 120  
cgctcgtagac tggccagagg tttacgacga cgtctcattc aaagacggcc gtgcaccgtc 180  
gttgaactcc gagaagcacc gacgttgaac gcgttttttg tagcagtgaac acgagattga 240  
aaaattgacc atctggctac tattacaagt tacaactacc gaaatgaagt tctattagat 300  
ggcttcattt tatggcaatg tttttcttgt tccttaagat aattgtgagc tcaacaaccc 360  
attctcaaca catggtgtct atcatggatc acccacttgg tgttcaatga tgc 413

<210> 28450

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28450

agcttcctat agntccgttc ctctctctct cgatatgaga ccgagtctgg cactccacat 60  
tagtacattc accaattata aaagcatcaa ctctgtcata cggaatgagg gcaacctcat 120  
catggtgctc agcattacca aacttgggtc aagtcaggtc agcaacacaa aactcctcct 180  
caggtgggtc ttgcaaagga atcttcccca cggattcaac tatagccata tccaaaatgg 240  
cacaaaaacc aaaaaacaca aaaaccttcc ttgctatata tacagaacaa tctagaagtc 300  
tctccacaaa cactcacatg tccaaaacag ttaaactgtt aagcacataa caaacacccc 360  
tgaaacaaca aatacctttg agat 384

<210> 28451

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28451

ttctaccata nagctgagaa ctctacacct ctgtcgcagc caatattaaa cagagatat 60  
cagtagttga agatgaacat ccacagtaca tgcaacagta tttgattgcc actgagagaa 120  
agagtgagaa aagccctctg ttcctaacct tcagagttga gccaggacca cgccagaaac 180



ttggtttcct ctagcaattt atctccatca aagctaaagc aattaaatac ccaatcattc 240  
ctatgacatt atatactcca aactatgaca caccagataa tcttccagat ttctaataatt 300  
atttgactca atacgcaagg caatggtgcc agaagtgagt ttccacggag gatggaanaa 360  
ctgtacagat accaaagaga gaataccact 390

<210> 28452  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 28452

agccctgtat caaatcaagc ttagagaaat accttgcgcc acccaattca tcgagtaact 60  
catcgatcgt cgaaattggg aaccggtctc tcacgggtcaa cgcattcagt gccctgtaat 120  
cgacgcagaa cctccatgaa ccatcctgct tcttaaccaa caaaacagga gaggaaaagg 180  
ggctagagct gggctgaata aggccctttt gcaacattga atccacctga gactcaatct 240  
cctgggttttg gtaatgggga taacggtatg ggcggacatt gaccggagggt gcttggggaa 300  
ggagatgtat gtggtggtcc gtgtca 326

<210> 28453  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28453

ataacaaaca agagtaaaca tataanaact tctgctggtt catttcttca ccatgaatcg 60  
aagtcgtcgt gccaaagaagg taaatatact gtctcaaaca tacacattac atgtacataa 120  
atatgctggtt acaacctcaa ataaaaattt gatttgatta aatgttttga aatgaagaac 180  
atgtaaacaa cattgtatgt ggatttggcc tttatatctc tcttaacccc caaaatatct 240  
catttcttaa atttctgttt tctgtaaata gatctgtttt tcagcaacaa agacacactn 300  
tctaattgat gcaacacana gaaaacaata cagaaacaaa ttcccacccc aagtttgatg 360  
aggacaagca agtacaagca aagaaaaaac tttttcgggtt catcaca 407

<210> 28454  
<211> 143

<212> DNA  
<213> Glycine max

<400> 28454

catgcaactt tgtttattga atagtagatc ttgcacggag aggtcatatc tctttcttca 60  
acacgctcta ttgttactct tgaaaagtga gaataagctc tcataacacc ttgttcactt 120  
tgagagaaaa aatctaagca ctt 143

<210> 28455  
<211> 520  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28455

cggttgctg cgtctacggg ctcccgtaann nctccaccat aganaaaaaa cccagccgng 60  
atacactcta tgcagagtcg gaaatgtatt ctttgactgg acaccgacag agggggggcgt 120  
gatatagctg agcgggcatt ggaaatgagg catatgctcc tagtccctag agattctaca 180  
cgctcctgat cataatgaca ctacatactt ttcttgggag agagctcatg gtattcaatg 240  
tgggtatatt atcttgtcat ggatactttg gacaagccaa tgtctttaga ttgcctgaca 300  
ttgcggggca aatcgcacat aactacgtc aagtgcgtgc ccttgaacat gagattcctc 360  
cttcagatca ataatcggag acttgagatc gtcctacaa ttctaattgg taccgatgtt 420  
atggctgatg cagacggcac aacatgtatc cagcggttaag aatgagtcaa atgttctgac 480  
cgtactcgta tacagcagga tgcatacaca tatcacttcg 520

<210> 28456  
<211> 255  
<212> DNA  
<213> Glycine max

<400> 28456

ggttttggct aactcaacat aaccaggga tgcgtcgcgag acactttttt ctgcgactgg 60  
gggtgggctt cctaattttg tcataagtat gtttccctcc tagtattttc tgtacttctg 120  
agatttgagc tcgttaataa cacttgctaa aatgtttatg ctccgtatgg tacggagatc 180  
caaagatgct ccccgctcat ttctttttaga gttaagccga ttctgtccat acgtataact 240

taagatgttc ctggc

255

<210> 28457  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28457

gggatttata gagcgacctg cggcatgcaa gctttcttca gatttttagta atgatccact 60  
gacctagaat taaaagaact taattccatt aacctatgga attaaaagaa cttaaaggct 120  
gagtgttaatt gaaattgtgg caacccaaaag tcacccccaa cagccatcaa gtcagccacc 180  
attttgtctc ctataatgct tatgcctang ttgccaatTA tgcccttatt acgacttgaa 240  
ctaaaccaaaa ctaaagccct cttattgatt gacccaaaac atatttttga tcagccacac 300  
ttacaacgat tgagccttta ttagaaaaac taaacactct aaaattga 348

<210> 28458  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28458

atgcgtcacg taaanaccaa ggttatggtg tactagcctt tgatggcact tggcgggaag 60  
tgatggggga aatccacatt ccattcaga taagccccta cacttgcaat gcggtgtttc 120  
aagtcatgga cataaatccc gcctatagct gcctcttggg gagaccttgg attcatgcgc 180  
tgggagtggt cccttcaacg cttcaccaga agttaagtt cgtagctggt ggacttctag 240  
tgatatggtc gagtgaagag gatatgttgg tgagatgttc ctcttccgca ccatatgtat 300  
aaacaatgga agaatcattg tgaacaactt tcaaattctt ctaagtggag agatgtgcct 360  
ttgtggagat gatcccgcaa ctaccttttc tctcttatgc gaccatagtg ggggcac 417

<210> 28459  
<211> 507  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28459

aacagctgtc gcggtantccg atgnacatag caanancnat nananntnccg tgcggngagc 60  
 tcgtggatac tctacagtgc gagcaggcag cctttgttct ttgcttaagc ncacgnacaa 120  
 acgccggcgg ctgcggtatg attacgttac tctactcctcg ttcacattct ggtaacagga 180  
 ctttcaccgc ttgcgcatgc catggattgt tgttgatgca gaatacgcac ggacacatgc 240  
 cgatcaattg acagagcatc ccggatggag aaacaacggc aagaaacgag gctctacatg 300  
 tgtcatattg cgacattgct cctctcccca gactcaatgg agagggtata gctattgact 360  
 acacggaatc ctgcgaacat agtcatgaat gccttgcgga atgacacaac tgtagatgaa 420  
 tgctgaaccg taagaagcgt gggctcttca atgtcactgc gcgattatct ccgtcccaac 480  
 acctcgggtgc tacagtcact gccgccc 507

<210> 28460  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28460

gaggatgacg atacctagct angctngtct ngcamnnncc nanananagn aaanaaacgc 60  
 tgagggtgag gatgagcctc cctgtatata cttatatggt gtcatatccc aacacgatgt 120  
 ggggaataaac caccaaacca ccacctttca cggtgcaact tcatgcgtct cgcatacacg 180  
 ctacatctac atctagctac tgtgtctaca ccatataaac agttcttccg actctatgct 240  
 ctcacacaag aaggatgtcc accacttata tacttgaatt gtgcatatct ctctctgata 300  
 cggaaataaa ctactaaacc agcaatctcg atgggtgtact tcaagccacc ccctaaacga 360  
 gcacaactca cgetgttttag cggcgtccca attaagcggg cttcccacaa tccccccca 420  
 tgttttaatt actgcccacaa ccaacataaa atactgotta cttacaatct tagtctcaac 480  
 tcaagagtta ctcagaaatt ggagtttcta n 511

<210> 28461  
 <211> 228  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28461

tcttgcttat cattaattcg agcatctcga tatatgacag gactcatcag acatccgagt 60  
 aaaagttatt gtcgctgaat tggctcagag cttcaacatt cgatttcgag cgtctcgata 120  
 tatgacggga ctcaatctga catccgagta aaaagttctt gtcgtttgaa tntgctcaga 180  
 gcatcaacat tcaatttcga gcatctcgat atgtgacggg actgaatc 228

<210> 28462  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28462

ttcagccact tcanacgana ataacattgt actcgtgatg ttgattgagc accatcgtat 60  
 atcgagacgc tggatattga aagttgatgc tctgagcaaa ttcaaactac aataaatcat 120  
 tcctcggatg tgtgattcac gcccgtcaca tatctagatg ctcgaaattg aatgttgatg 180  
 ctctgaacac attcaaacga cactatcgtt ttactcagat gtctgagtga ggcccagagc 240  
 atatagagac gctcaacatg gaatgttgaa gctctcagcc aattcaaacg acattaacta 300  
 tctgctcgga tgtccgattg agtcccgtat agattctaga ctcttgaaat tgaatgtaca 360  
 agctctggca aaatacacga ca 382

<210> 28463  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
 <400> 28463

agcttggtta ttataacctg ttaacgaaga cgaagaccgt attatgcact agtaatgctc 60  
 attcttaatg atagaggatg cattcatgta gtatataatc tacttactac aagacttgct 120  
 gcaaactctgc aattgaatgg atctatcctt ttcaatctta catctttcag ctggtagtta 180  
 ccctaagaga atatgaacta ctgtgtctca att 213

<210> 28464  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28464

tgatcaaagn cacaacaaga atagaattgg ggtgataagg gatttagcat ttacatttaa 60  
 cctcttatga ttggtggtga gacaaggaga cattgattaa tgtggaataa agtgggatgg 120  
 ggaacatgat aagaaaaaat atttataatc taatggtctt tagcatccta aatcaaattt 180  
 gtgccctacc aaccctcta aggagaatat tttaatcacc atgggatgat gatggggatc 240  
 gagagtaccc ttatgtggcg attccgcctc tcaagtctgg cttggtgggt ccttatccta 300  
 tttgcaatat tatcattcgt gagtgaacaa tttctgacta tccaatcgtg atgaggctga 360  
 tgcactaata 370

<210> 28465  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 28465  
 ggtgccgcct gaccaccatg aagcccgata ggatggggag tttttttaag gagggggggt 60  
 aaaagtcgaa agcaaaaatt tagatagtag agctgggtag atggtagact atgtatagga 120  
 ttttacgatg attagataga tatgtctgat ctttgtgttg tatagaatgt actgtaggag 180  
 cgagaaaggg gtagatccct tattcagtaa gtgtttgtaa ttttcatttg 230

<210> 28466  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 28466  
 agcttctgtt ccattgcaat tcttggtggt gaagctcatt cttccttggc ttattcccta 60  
 gtggatggtg tctccctctt cctcttctcc tttgtcttcc gctgcatctc catggtgaaa 120  
 aatcaccatt gaaggacctc attgaagctc aaagatccag cctctataga agctccacaa 180  
 gcaaagcttc catcaagtgg taatcagagc acaagagctt caagtatgtg ctcccttacac 240  
 ctccattaat gttttgcttt accttctctt ccattgttgt atcttctttt tttctccatg 300  
 tatctctca catgtcttgt gctaatggt ttaacatg 338

<210> 28467  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28467

gtgctgtttt cctgctagct acctattagc atctttcata tatataaaat aaaatgacta 60  
 gtccttaatg taatatttgt aatacataaa caaaacatct ctacagccct atcctgaaag 120  
 tttaaatcca attatgatgt gacagacaaa tattaaaaat aaaactcaca gtgattcagt 180  
 cttcaatcct caaatccttt tgctttgatc aaaggtgaga atcaagttct gaggttaggt 240  
 taaaggaaaa gagctttgag aaccacgtaa agcttgaaaa ccacgtaaag cacaatcaac 300  
 tgccacaaca aaatgaaacc ccacattaca attcttattg atacttttat atgagtagcc 360  
 aagtggacaa aatgacccaa taattngata agaaccttcg gacaatgcca ccgcactgat 420  
 taagaactta at 432

<210> 28468  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28468

agcttgtatc tactttccat aaataaaata taaaatagat atttaggttt cctatactgt 60  
 atctggaggc aattagcggg cacttacgga agagagagga acattcatca tattgatgca 120  
 ttaaagtgtg gcatgttatc ttttcctttt ctcgggccaa ccaatacaac actttccctt 180  
 gtcaaaccgt ctcatTTTTT tgtacctttc ttatttattt taaaaagagt agtttcttat 240  
 tctttaaaat tattatgaag tctcctaaaa tattaggatt aatgtaaata ttacaaacac 300  
 aacataaaat tcaaaatcat ttatctttta nagattcata atgggtactc attttgattt 360  
 aaagaattaa aataatcttt aatcattcaa aatattaaaa atgatac 406

<210> 28469  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28469

acctgtcgca ggggtgggggt ttggctcctc tgctgaccac catacagacc ttngcacttc 60  
catgcagcaa cctgaagcaa ttgagcacc tgaagcttat gctgcagata tataacaatag 120  
acctnctcaa cctcagcagc aaaaacaacc acagcagagc aattatgacc tttccagcaa 180  
cagatacaac cctgcatgga ggaatcacc taacctcaga tgggtgcagcc ctcagcaaca 240  
acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac catacattcc 300  
tccaccaatc caacaacagc gacga 325

<210> 28470

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28470

ccggtttacg cgatcgtaga tgcaaacc aaanncgggng cagcagggca cgaggggggc 60  
ggttggttac ttacaaaaca acaggggggg cgggggagta tccgcaaacc cagaaaagga 120  
gaacccgacg agcgcgcgcg caggacgcga ccccaaagg tcagcgacg gggaaaacca 180  
gcgcgccgga cccgcgcagg cggagcggag cgacgggaac cagagacgga gcacggaaga 240  
gcggccacaa gcgcgcgcgc gaggaagcac caccgcaagg gaacgaacta cgcagaagag 300  
ggaccaagag cgaagccggg ggcagacacc accatcgaaa cagcgcc 347

<210> 28471

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28471

ccgggatctt agatcacctg cagcatgcag cttgtttaat gaggtccagg aagacaaggc 60  
ggccgaatga actagttccg ctctgagta tgacagtcac cgctttaaga gcgctgtaca 120  
ccagcagcgc ttcgaggcca tcatgggatg gtcatttctc cgggagcgac gcgtccagct 180  
catggatgac gagtatactg atttccanga ggagataggt cgtcggcggt atgcattact 240  
ggttaccccc atggcccagt tcgaccaga agtagtcctt gagttttttg ccaatgcttg 300



gccacagacg agggcgtgcg tgacatgagg tcctgtgtga agggtcagtt gatcccgttt 360  
 gatgcagatg ctat 374

<210> 28472  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 28472

ggttgcttcc tccagaagaa cagccttctg gagggcccaa gtgggcctgg ttgctatttg 60  
 cccccccatt tttactaagt acacccatt gcctttgttt ttgtgattct tttttcgtaa 120  
 agttacggaa acttatgaat ttcgtaacga tacttgtttt ctttcgtaa tgttacggaa 180  
 ccttgcggtat tacataatca tccccttttt gacttaccga atgttacgga acctcactaa 240  
 tcatccctt ttttgatttc cgggtgtgtca cggaacctta cggattgtgc atcaatattt 300  
 tctgttgttt ccggcatgta ccggaattta caaattgcct aatgatgggt gccagcacct 360  
 cac 363

<210> 28473  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28473

agcttagttg cangtacgaa caggtgctaa gcccatgac gatcgatcat catccggcgt 60  
 ccggctcatg acgtgaata agcactctta agaggcatcc tagtatctct aactttgcta 120  
 tataattacc tgttgcatatc ttgtacattc tcttgaatta tatcctgaat gtgcctaagt 180  
 gtatatgcaa ttataggatt cttaaataat atatataaca atgaaca 227

<210> 28474  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28474

ctaattctaga gatncatgaa aggaccttaa tgtttgatgt ttatgggact aagatgggtca 60

ttgaccagtg gctattctat gatataaccc aattgccaaag cgaagggtgta ccatttgaag 120  
 gtgcactgat tgatgattgg aagttgtatt tctctgtaca tgatgcccgc cgattgggtt 180  
 gtaccaatca agcagatatg accggaaagc ttcttgccag ttcattagct cttgaaagcc 240  
 gcatcctcca ttaccttatt gttcgcacat tgcttccgag atcttcaaac cttgctcacg 300  
 tttctgaaga agatctcatt gtcatgtggg cctttcataa aggttcacaa actgattggc 360  
 acatctggtt atatat 376

<210> 28475  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28475

ggcatgcaag tcttgcacgt gtgatgnngt gctctacat tataagatta gtgttcattg 60  
 gtacatgccc tggctatggg ggcatgatan nctccactat aannaaaaaa ttggtcagta 120  
 cgttattaat ttactaacac gtttaaata tagaatcgcg cacttgtagt atacttccct 180  
 ccacgtacct ctgcaacata agaagagaca aagcacacat tattttacat taattaaaaa 240  
 agttattgat atatgtaatn tttattagac aaaatttgta tcaacggagc cagtcttgac 300  
 attaacaatt ttgtacgtta gcaaatgaca attttttaaa 340

<210> 28476  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28476

ctttgagttg canaagtgg agccttcaca agatatagag atatagagag ttggaagaca 60  
 agaagatcca gtaatagacg gccctgtctc tgacctgttg tactacatcg gcttttggg 120  
 accacttccc cgccccatat aatgttaatc ccttttgtta cttctaagtt ccatgtgcta 180  
 tgtgctatgt gcaattatta tccgtcttgg attgtaatgc aaaaaatcta tcaaatntag 240  
 cactaacggg caaatcatga taagagagga gtttaacttc caatcaccct aatcatgctg 300  
 ccacatgatt gtatcacaca gtaatactac ttcgttatag ttaaattatg agagattaat 360

taattattag agtgagtttg atagttcaga aatctttnta tatagcttac tactatacaa 420  
aangcattnt tttatanaaa aataccatgt tttaagagaa tatca 465

<210> 28477  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28477

agctttctct attgttcttg atanaagaag agcaagacgg ttaatcatgg tactttgaca 60  
tcaagcggta cgtagagtat aaggagtatc cacaaggggc ttctgaccat gacaagagga 120  
cattggtgaa gttggcaact agttcctttt taagcagagg tatcctatac aaatganatc 180  
atgatatggg cttgctctga tgtgtngaca cttaagaagc cgagcgaatg ctcatggagg 240  
taccatgaag ggtccttttg atgcatgcta atgtgcatgt catggctagg aagattctaa 300  
ggcagactat aactggctca ccatggaaaa tgact 335

<210> 28478  
<211> 475  
<212> DNA  
<213> Glycine max  
<400> 28478

ctcaagcctg cttctacaca acaacccgca agcaccaagg ttattgaata tatattttta 60  
gagaatttat acaaaatcgg aataaaagaa ataattacaa aagtgaggaa aataacctat 120  
ctaactaaaa tttagatttg aaagacatga gtggggcgact taagtcccca tcaacgatgc 180  
cataaacttg ctataatttt ggcaaggata ccaatgtcgt cttacattac agatttataa 240  
taaagagatt gtctccatag ggacttgagt tactcaattc cttcggataa aggttatcag 300  
ttgggaaaaa ctaaccgatc attgcataga gcacaagatc aacatgagaa acagaggatg 360  
cgatccacga tcataactct acagcgcccta ggctccactt tccacttcct tctttcgtct 420  
ggtgttgctc acattttttc tatgttttct gatgtctcta tcttcttctt ttgca 475

<210> 28479  
<211> 98  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28479

acttttgtan ctttttaaga acaaagaccg tgggggggac ctagcaacct aacactctta 60  
 tgctccctga cattcctaca atatgtgaag aggatgct 98

<210> 28480  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<400> 28480

tttattttct ttctccaatt tctataaata gggggagaag tgaagtatat aacgggttcaa 60  
 ccccttatgc acttctctct ctgtccaatt agcttaagaa aattatattc gtgaagaaaa 120  
 tccaagccga ggcgcttccg tatcgttttc gtgagtgatt tta 163

<210> 28481  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28481

gaaaccacag gatgttcant atgggtttct agcctacata tgccgacaag agaaggggtca 60  
 ccatagatag aaaagaaaga agcctagcac atttacaggg gcagggacca cagatggaaa 120  
 ggatccctat ctgccacatt agcaaagtgt ttgtcaacgg cgggtggatg catgaaaatt 180  
 angttgttgt gctagacgaa gaaaccaacc aagagcagcc aagttggatg caatcatgct 240  
 ccccggtttt cgaattgaag aattggcaga tcatggagtg acccaagatt ttggtgtcac 300  
 atccaatgta atccagtagt tcgaaccata ttgctgggcc tatgctntac ggtctgcttc 360  
 ttttgttggg catacctctt tctttaatgt tcccgaant ataaatatac aacccttggt 420  
 tattgatatg ttgcctctca 440

<210> 28482  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28482

agcttgtatt cactttntct tcttttcccg acaattgggt cagttttttt ttttaaaaaa 60  
aaatagtctc aactttttta tgatgaaaat aaaattttct ttgttttccg gagaaactca 120  
cgtacgtact ctogttatca tctactagaca ccggtcacca atattaatat tgcccctcac 180  
caccacttct accggaagtt aagttgttat taacctttac tttcattatc atcaatagct 240  
tcgctgctat tgacccctcc cttcactggt ggcataaatt ggctaattag agatcaatcc 300  
aagtcaaaga attttttttt aagagccgta cgtgactgaa aataaatact gcttt 355

<210> 28483

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28483

tagctnccgt ttcattgagaa actaaggagc tctgttaaca attttggttt cgatgtattg 60  
ttttgtttca ggatatttta aagttcctcc ttttaattaag tgtcgggaag ctattgtag 120  
caattgtgaa cgttcatgct tatcacggat tgatcttgta accgtgatta atttgttttc 180  
tatgacatnt tgggtcaataa agtatatcac tttttgtgag ttntgtccaa caagatttta 240  
taaaactttt gacaaataag aaataggatg cgtattatta gcatgatagc aagtgttgct 300  
gtatcatgac tttgccc aaa ttaattacca tcacggaggt ttcttttctt ttactccaat 360  
agaagacaat taatgtaatg cataactcaa tacaatgaag cttaaggcaa ccacacttgt 420  
accttacatg tatctgtttc tta 443

<210> 28484

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28484

ggctngtttc ttttattatt ctctgacctt caaatccgga tgtgactcta acacaaatca 60  
gaagacttgt tgggttgatt gtacaatgac taacactatc attgtacaga tgaataaata 120  
atthtagtcc ttacactttt ctctcaagat gagcaaagtg tgttcatagc tttcttgaac 180

tttataagaa tttacatata gatctttcta tagacagaat cttaaataat gagcccttca 240  
attcatactt catgtcttca aagtttcttc tatttatat 279

<210> 28485  
<211> 515  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28485

cactcaccag gcctcggact agccataagc ancccnganc naggagccgg accccgaggc 60  
aacactgagg ccccttggtg ttctattgc ttataaccag attaggccat ctgaacacag 120  
ggtccttcca tagaaatcat acacacctat ctcatgagga agtggcgggt ccacagatct 180  
gaccagatcc tatctgcctc aatagcggca tgcattttca tcggcgcgcg gatgcctgac 240  
aataatgtgg tgggtgctga cgactatacc atggcagagc agacaagatg ctgcaatcat 300  
gatctccggg atttgatgga ggaacagaca caacatggtg ttgacaaaaa gtttagcagc 360  
acactcgatg caccacagca acctgaacca tataagagtg accantggta caggattgcc 420  
tcgctcagtc ccgcatacaca ctatgagcan tgtatccgct atcatacata tacatgccaa 480  
tcttatcgat ttgtcacctc gctcactagc aaccg 515

<210> 28486  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28486

ncaagcttta ttactataat ctaaacaatt attcttagca aaatttagta aaatcgaaaa 60  
taattntata atcaatatta atcacttgta tttacaaaaa cagtctagcc tagttaatta 120  
ggcatgatgc atgaattatg taaactcctt aatatttgcc tttgattntc cacaaataaa 180  
aaatacttat aactagaaat gagtgaaaca ttgaactaga aatgaatgaa acattgtatg 240  
acctcatcca gtggttgaag gagatgaata ttgaaaatgt gattgtcgaa gtagattgct 300  
agcgaattgt acaagctngc atacgggaaa aaggatttga gtttgagagc tacatattgc 360  
atgaatntgt tatagtacca aacgataccta ttgctcatga 400

<210> 28487  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28487

tcatgttaag tatgtatggc anaacttcat tactgttggt cttgacatac aagtgagctt 60  
 gtaacanatc ttctagactt ggagtgatca catgcagtc tcttgaaccc ttaccactca 120  
 ctctatcatt atgctgagac tcaagaaggc caatagggtt agccttctca atgtattctg 180  
 aacaaaatcc aatggcttct tctacaatgt acctctcaac aatagatggt tttggatgat 240  
 atagattctt tgtataccct tttaagatct tcatgtatcg ctcaaccggg tacatccacc 300  
 gcanataaac aggaccacaa catttgattt ctctaaccag atgcacaatc aactgaatct 360  
 tgatgtcaaa gaaagcaagg ggaaaatacc tctccaactg gcacaatata attgcagcct 420  
 cattntccag ctcatcaaac ttgacaggat caacgactnt gctacttatg gcat 474

<210> 28488  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<400> 28488

ctgcagctgt tttttttttt ctcatctttt aacaagcttt gaacatatac ttggtcttca 60  
 ttaactgtct ttgggcttgg cggccacgct caacatagta ctttcgacac ctactatacg 120  
 ttgatttcac caatgttggt atgggaatgt tgcgacaatc ctttaagacc ttatttgaac 180  
 attcttgaag gttcgttgtc atatggccat atcgacgtcc ttctctatcg taagtcacgc 240  
 tcca 244

<210> 28489  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 28489

cctgactcac catataccta gacccagtg tagaatgtct atttttacct tcggaagcga 60  
 aacataatag aacggatatt tccactcaaa gataaagaga aggaaaattt ccaatgaatg 120

ctcaagcaag aaccgatgga gaattcccca atcaaagagt gggagaacgc aaaaagacaa 180  
gacaggaaat tcctcttcta agaatgggag aaagtacaaa gggaagaaga agaaggatag 240  
aaagctcctg atcagggatc gaaggacaaa cagaagaaat gtgcagaatg gtctttggac 300  
cgcacaatat gtgaacaata cagaattgac acc 333

<210> 28490  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 28490

gggatcctta gatcacctgc agctgcaagc ttactctttt gtctgtacct atattttgcc 60  
tttaattttt aactcttaca attgtttgcc ctttcaattt cttgcccttt ctttaatat 120  
tttctttaat tgtctccatt tttatgtttg tgtaaaatta tttcataatt tatatataag 180  
tatttattta ttataaatta taaatttttag ttatataaaa taaacattca ctaaaatact 240  
agtaattgat aaatgtacaa cttatattta tagaacaaca tcacatgata tgtgctttaa 300  
gctcatagtt aatttgtgac aaagctgacc aataataatg a 341

<210> 28491  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28491

ctcttcacaa tatcgggttca caaggtgggg gactatagac ttcttcataa gcacctcta 60  
tcgtagttct tggtttctta ttctattacc aagatacatc aaatattaac atgtggaatc 120  
cttgataggc tcaacaaata tatggtggta acaacaatga ggatgataaa gaaactcaag 180  
caagctgcat aatgttacct tgccttcata ttagatcata ctattactat taaatcatac 240  
cacaatattg cttgaaaatc attgccatt ttttagtctt gaaatatatt aagtcttttt 300  
tttttctatg cttgcaagta attnttttct ttctaatacgt ggaacaacaa atgctctcta 360  
attatttttc tttctcaaga tgataatgta gaaacgtatc agtgcaagga aacta 415

<210> 28492



<211> 197  
 <212> DNA  
 <213> Glycine max

<400> 28492

tataaatgga cttttacagc aattatttga gaagcctatg gggacattaa tattatcatc 60  
 accatcttag ataaaacatc tcatacaaat atggtttctg cactataact caggatattc 120  
 acttatttatt gtctccatac aatgcagtta tacaaagtct agttgagctc taaacttatt 180  
 gaggaaatta taaggaa 197

<210> 28493  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28493

acttcagct ggagctcata tactctcttg ttcttgctct ggtacgtata attgttcana 60  
 aaattgctgt ctggttgttt gtttgcata cctgttttta actggcatgt tcttttcttc 120  
 tgtaactgca aaaaaatatt tacttgttga gtggcttcta actntaataa tctttaacaa 180  
 tttttaatta aggaatgatg cccattgctg attgcatgaa caaatgaatt ggaatccttc 240  
 caatcctttg aataacttct catgctatca tgcagtagga atatagtga attttattca 300  
 tatgccgaca tatataaatt cttgtcccaa tcaagtatgt tattaactta ttatctatta 360  
 gtatgaagtt ctggtttgaa tgttacattt catgt 395

<210> 28494  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 28494

agctttcttt attcatgcca ttgcaaggta ccaggaggctc atgctacaga gcctgttagc 60  
 gcaatgattt tgccatccaa ctgcgtgtat tattatgaac ataatatgtg agtattgaat 120  
 tccatcttaa tatcaattga cattacataa agttatacag catgtatata acttggcact 180  
 gggaattcac gtaggtaaca tgagattctt taatatccct tattacaata tgaactctac 240  
 actctaatat catattaaaa tttatcttta aaccaatttc attatattat aattatgctt 300

acagaaa

307

<210> 28495  
<211> 201  
<212> DNA  
<213> Glycine max

<400> 28495

cggaggagct taaaccacac actctcgca cctgtgcaca ctttttattc atggccatct 60  
gggttaccag actcaccaag gcatctaggt tacctccaag cttcttattc tcggctgata 120  
aaaatgaatt cttcgctact gtatgcactc ctctaagac gatatcgatg atattggcac 180  
tttattaccg cgagtagaac c 201

<210> 28496  
<211> 156  
<212> DNA  
<213> Glycine max

<400> 28496

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caactcctct cgtgacgata tctgagactc tgatgtcctt gcataaatgg aacgggttac 120  
ggtttgctcc ctgcgaacat ctgagttaca acaaga 156

<210> 28497  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 28497

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cagtttgggt gctttactca tggcacgtta ctttgcagag agagagttag gaccccaaac 120  
atcttctgca ttgtatthtt agagaagtac atcttgctag tgtcgccttg tgctcagagt 180  
tgactthttag tgtataattc aaatacaacg ttaatagtat tggacaaaag gaataaagaa 240  
tgtcaagaca agacaattca aaatthttctc ttgtgtgcta tgacacatat tgcttataga 300  
accatggacg ttactthttctg aaaaagc 327

<210> 28498  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28498

ttgtagaatg gctagacatg atacatgtca aggtttgggt tgtttcaagg ataaaaggga 60  
 tgccccacat tatttccatg acacaaatgc aaaaaatgat gatttggaat ttttatgcaa 120  
 aactgggtcat gcatgcacct atgtggacgc tcaagtgtca aatttttatg gtcatgtgat 180  
 gctagggctc aagattcatt tctctatatt taaatcaacc caatgtttcc aaaatatgtt 240  
 cttttatcaa cttgtgcatt catccgagtc catttcgggc gtccggggaa atttcacagc 300  
 attcactctt cagggtgtaga cacattttcc aaaaattggg tatgatcaat gaatnttttt 360  
 caaagaaaag ttggaaatca tctcttttca naagcatgtc ggtttttcag ctagacaact 420  
 taatttttc 428

<210> 28499  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 28499

cgctgtaaat ctcagctggg agcttgccag agaacaaatt gtggctcaag ttgagactag 60  
 tgaagcttgt gaagatgatg aattgctttc ctgaaacccc accttccaat ttctttctgg 120  
 taaggctctat ggaaagtaca attgttgagt catcgatata cttgatgccg gaccatgaac 180  
 atgcataaga tttacccagt aattttactc cagaggggac cacccgattg tgcaagcgga 240  
 tgcatcatct ccaagctcga tttaggctga aaatgccttt attaggggca attgttaaac 300  
 tgctgtgata ccctgagaag gtacaagaat acaattttga tgtataccat ttgaaatctc 360  
 cattggtact tgaaagccg 379

<210> 28500  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28500

agggtttctt ctgtaatggc tgtttgaact ttctagttagg ggatttcaaa tgagcagctg 60  
 atgtaaatac ctaatatcta attgattgtg ttttttgtgt tcaatgcttc cttcaatgct 120  
 tgatgtttgt atgcttttgg tctgatcatc catttgtgtt cacagttagg tgacttttagc 180  
 attgggaaat gtactattgc cttagaactt gattgaagca ggatcaaaac ttagtcttac 240  
 atgagggatc tgcgggttaa gttttgggtt taattatgtt gttaccataa tgctgttttag 300  
 ttttaagccta gtcttacatg agggatctgc ggacgaagct tangctaaat taggctaaac 360  
 tttcataagc tacttgagct gagtctagtc ttacatgaag gatctacnga caaaactcaa 420  
 ttttaagttag tctaaaccaa 440

<210> 28501  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 28501  
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 aatctgtacc tgtcgcaagg gtctgcggtt tgtgctcttc tgctgaccac catacagacc 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gttgcaaata 180  
 ttttcaatag acctcctcaa cctcagcagc ataatcaacc acagcagaac aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300  
 ctcagcaaca acaacaacag cctgctcctt cattccaaaa t 341

<210> 28502  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28502

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 attactaatc ccttttgctg ttagcctgta taatttaaatt ttcatctgtg ttatgatatt 120  
 ttccacattt tatgtccttg ttatgcattt aacaaatata aacctaataa cccaaaaaaa 180  
 aacagtggct cctgaagct agcttagtca taagatgata tcttagtttc ttccagatat 240

aacagttcac cctgataagc aacaacaaaag ccaaaaaagg gttaaactca gaaaatggaa 300  
 tacatagaac actagtaaca caaaccaaag tttctgcttc actgtaatta agagggcatc 360  
 tttctgacat gcatgctcga gattcttgna ggatgcactt anttattaag gtactatcaa 420  
 gaaataatta attaattaag atgtataaat aaa 453

<210> 28503  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28503

cattcttttn gttctgnnnn gnngagncaa caggcattcc ttgtcctgta acccaatgat 60  
 tctagtcaag agaaaggaga tggtctttga gtttacgatg atgtgcccaa gcagtgacaa 120  
 tggctcttca cattgcaact ttaggggtgtt ggtgcaagtt gaaaatgata ggagtgc aaa 180  
 taggagggat gtcatgaatg atgcattggt aaaaatcggt atccttctct tgctcgcaga 240  
 agcacatctg tcaatcattg aatctgtaga tctttgttgg acaaaagatt tgcaccatac 300  
 acatgtgatt ggatgtgtct tccttgtcat actctgaggt ggacgcaga cgtgagtttt 360  
 cacacatgtc ttcgaagtaa aagagcatgc catcattctg atca 404

<210> 28504  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 28504

atctctatat ctttaaagggt tatcatataa gcttttaaga tatctttggt atctctaaac 60  
 atcttaataa gaagctaaag tatttatattg tattataaag gttattttat tgagaccgc 120  
 atatatcttg gtagactaag atcaatacat gtggtaataa gtttccaagt cttggaaaat 180  
 attatactaa tattttattg agttgtataa agatacttac ttggtatgaa aatcatgttt 240  
 cttatagctt acaagaataa tatttcggct ataattacat ctgttaatgg ctcaagctaa 300  
 ataattgaac tttga 315

<210> 28505  
 <211> 371

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28505

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acagtttttt tttttggtgc aaccgcgggg atcgtgaaac taagggcggc ccacggctgg 120  
actgcccgga caccacacag tggtcgagca aggcacgggc gacacctcgg aggacaagga 180  
caggaaagca ggatgacatg tcagagagac ggctaactac aagaattcgt gcggtaatgc 240  
ggcgagggaa cgaatacgat gggcggctcg ctctccgagc acagagcttg gcacaagaag 300  
acctaacgca acaggctcaa gcaccacggt cccaagggtgc gtgtgggaat gagagcacgg 360  
cgaggagccc g 371

<210> 28506  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28506

naaatgacta tctttttact tagattgcaa ncaaaaaannc ncgggggatgg aggctacgga 60  
gaacagctct tttatattga aaacacccgg gggggctggt atactcaatc catcacgacg 120  
gctgaaaaag ataatgactt acaactcgtct aatgccgagc ctgcacctgt tttgatgatg 180  
tactatggga ggaggacaat ctcattctag ggataccacc atatacggta gctctgacgc 240  
atagtgtaat aagtagcaac tatggaccac aaaacagagt tcaatagagt atgcctatct 300  
cgagaacgcc catggtccaa ccccccgctc aagggtgtcc atcgaccgga gggccgcaat 360  
attgactatg tccagttgtc tgtgccacag tctctaagac atacg 405

<210> 28507  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28507

agcttccttc cttcgtcgcc gactgcaacc tctccgcgat tgctccttcc atttcattgc 60

ctttaataat cattaactag tgcattgtcc cgtgcgggac aaattatgtg tgagaagtac 120  
aactttttta tttattttta aaaagtaaata ttaaaactta agggctctaag tggataagtc 180  
atttgtaatt tcgaattgac ttaaatacaat tcaaatagtt ntaatattna aattgtcaat 240  
tggttgagcc attaatttta atattactga ttattgatta catagactca tcgatttana 300  
ttgagtaagc atcaatatgc attcttaatc ttengcatca aaagtataa agtttattga 360  
ttagtagacc tcagtaatgt ccattgggtt agtaaaaaaa atgtg 405

<210> 28508  
<211> 468  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28508

ctaagcttag actaagcaaa cnaatctggt atccgaaccc cttaattatg tatttctagg 60  
tttgagagtg aaatgagaat aagtaaattt ggccanactc tcacctcaca caatctatac 120  
atcaatttaa acttgctcaa actgngttta cacctaaaat tccaccgaat caaaatttga 180  
ctcctcaaca cccaatttta ccctagaaat ggctctttgt tcactttggt catttgtttt 240  
tctctcttgc acagcccaag ctgtctcata agtcctaaat gacatttcaa actaggatta 300  
actcactnta acctccaaat accactaaat ccagatttgg ccgtccaact ctcaaaaact 360  
cactctttnt ccaactcataa caccatattc tcactttcta accctatgtt aactctaccc 420  
ttcatctnct aacagntncc ataagcaatn tcagcacata aacatcac 468

<210> 28509  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28509

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tagtggaatg gagaaggaag aaagattatt ggagacacga attcaaggag aagatgagtc 120  
atgaacaagc tcaccaccat aggaagccat ggataatagc ttgaaggtag gagaagatga 180  
gtggagggag gaggagagaa tgagcacgan attctatgcc tcaaatgagg tctgaacttt 240

gaagtgtaat tctcaaata tcaaagttga aatatattgc acacataaga cctctattat 300  
 tggctaagtg tcacacaaat gggagggaca ttgaatttta cttgatttga attgaattgg 360  
 ggagccaatt tggagccaaa tttcactaat ttgttaatga 400

<210> 28510  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28510

aagaaagtga tgaggtacaa gccctanagg cagagctttt aagagtccga ttattcgaag 60  
 agaagttcaa gtccatagcc atcaaagtct gaaaagagta tgatgaacta agggacgtca 120  
 atatggccac cgctgatgcc ttggaacgag aaaccaagaa ggcccaaaag gaagaacacg 180  
 tgccagcaaa gttttgaggg gctntatagg gcagcaatag taagctcaag ctccgaagag 240  
 gtgaaaggaa tcatcacggg tcaaaggcat gatcttgaag gacgagctaa aggcttacct 300  
 taggtcgaag agaaatttgt cccaacagtt aagcgagact gaaggggaata tgtggggccat 360  
 catcgatgag tgcaaagaga agctaaatct agcggcgact cacgagcaaa ggctagagga 420  
 tgagtacgcc aagatatcag ca 442

<210> 28511  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
 <400> 28511

agcttgcatt ttttatttca aagatgcact aaatctctag tacctttgag ggttatgaaa 60  
 ggatgtgaat tgtggcatta ggcagcatag taaaatctct attccagtga tttgggtgata 120  
 cctatgaagc acctacaccg acgcggaacac caaacacgac tcggacacgt gaacacctgt 180  
 gatgtgcaaa atatataacg ttgtacgggt gtc 213

<210> 28512  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations



<400> 28512

gctgacatat ganagtcatc tccatattct gaagaataaa atttgatgaa ttttcataca 60  
aaggaganaa aaaggtatct ccacgcaata gacaatagga gagattaaca aatggtatca 120  
tcacaagtca aggctaaaag attcaaactt ttaatagtat tatggaaaga tcgagcatag 180  
aacaagaag atagttatat gagaggcaca tatacaaaat ttttttcagt aaaagtcaaa 240  
gatatttgac attacagttg tcaccaatta catcattgaa ctggatgaaa ttccacaagc 300  
caagaatggt cagattagta ggtaaggaaa cctaaggcag tattgagtat acattgtaaa 360  
tggtttggat tattggatat tagtggaacc ttattacgaa tattacaaat tgtactcact 420  
taggtacaaa tntcagctnt ttagtagtat agtcaaagaa tactac 466

<210> 28513

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28513

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agctacagtt aaagtcttct accctaaagt taagacaaga aaaagagaaa aagaatcaag 120  
gaacttactt ggatggtgta aaaatgatac ttcaaagtcg aaaatgcaca aagagagtat 180  
agatgcaaaa tgtgcaaatt tttggagaga tagaatgcag aggcaagggt tctataatct 240  
gacaaatgtg agtgtaaactg gctgtacact cacttaagca gttnttggat acc 293

<210> 28514

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28514

gctatgtgcc tgcgactggt ctctttcttc ccttcgcaac ttgagttcac tattgctacc 60  
ccatagagct ccgcgaaatt tggtccggcc atactcttcc ttgcgagccc tcttgggtctc 120  
ttgttcgagg gctcttgag taattgcatt ctcttcccgt aaccggcgcc actcctcccg 180  
aacgtgtgta gcagccaact tgaacttctc cttggcgagt ttgcctttc ctaactcgct 240

tttgagagct tggacttctt cgtcctcttc cggtgcttca naattntctt cgtgacgac 300  
 ttttaacttg gcgagccaat ctaaactcg t 331

<210> 28515  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28515

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 taggttgac ctcccagaag agtatggagt cagcaccact tttaacatta ctgatttaat 120  
 tccttttgca ggtggagctg atattgagga ggaggaacta acagatttga ggtcaaatca 180  
 tcttcaaggg gaagggaatg atgcaatcct ccctangaag ggaccagtca ctagagccat 240  
 g 241

<210> 28516  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 28516

ttgaggggtgc gtatcccacc atctgtacat agtttattat ttataatgtg tctaccatca 60  
 cgatgatcgt gtccctttcc atcattgggg gtaccacttg ggccgccaga tccctccacc 120  
 ttttgggctg gttctttgaa agatccgtcc ccctttatgc aaatgttctg tagttgcac 180  
 ctatccagaa ccatatcaaa attgtactaa tactgcctaa caaaggcaac cattaggtcc 240  
 ttccaagaat ggactcggga aggttccaag ttagtgatcc aggttacagc taccocagta 300  
 agactttcat ggaaggaatg tatcaacaat tctcatctt ttgcgtattc ccccatcttc 360  
 tgacaataca tcttta 376

<210> 28517  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28517

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 cttgattgct tgaccttgaa ttaatctttg aagcaatctc tgtttgctta accttgaatg 120  
 tttgttgaag caatcttggg ttattatact tttggcatca tcaaaacctg tattcatata 180  
 ttaacagata gttcctcaaa ggaagactcc aaagaacact ctaatgatga tgaaaataaa 240  
 cgaaacaagg attggaaaac cgataatgcc tacctaacct gtgaagacaa tgcgtcaata 300  
 tctattttact cttc 314

<210> 28518  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28518

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 atgcttcggt gatgagcctt gaacaagaca ttgctgcttt taattttattc gngagcgcaa 120  
 ggcacaggga cgtgtcaagg acaaagtctt acctataact tacttcaata ttaattattt 180  
 atctttatat tagtgccctc agttgtccca cgaaaaagac catcatatct acaaagatct 240  
 ccaactacag ctactaatct cagtaaaata atttcccaac gcttttttct ttaataatgc 300  
 gctcttgac atgctaattc atagcctatt ttctaactgt tcaatccacc ttctagtaca 360  
 tcacatttgg ccctttttct aaataatcat gacttgctta atgactattg agttctcact 420  
 caacatcttc tcaatcttta agcccttcac ttactactca atgatatctc tacaccata 480  
 gtattcatgc taacatcaac acccgtnat ctacatcttt agaach 526

<210> 28519  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28519

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 tggagtctga agacgaattc acattctcat ctttcttgg gcagggaata tctgtgaagt 120  
 tcaacttcaag agatgaacta ttgaatttaa agttgcatc aagttcccta agttctttgc 180

tttgcacaac agaggcttta ctactacttg caggccacgt ggatatattg tcagcatttc 240  
 ctcccctgac ccagactttg aattaggatt ggctgcaatt acatcaacag gttgacattt 300  
 ggatacaggg ggccttgaca ggaccatt 328

<210> 28520  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28520

aaacaggcgg ttgactgaaa cctangncnc tagcannnnc antnnanntn gtancccgng 60  
 atcctctgag tcgactgcag catgaagttt cttttttcca atcaactgaa tgagaacatt 120  
 gctcagtctt ttcctaatg aagagagaaa gatgtcttca acgttaaagt ttgagtataa 180  
 ccagcttatt tgctcatttt gcataagcac taatactttt tttatttctt ttatgaagag 240  
 ttggtgatgg atctaattag tagattaaac aaatttgtgg tategccatg tcatattcgt 300  
 tgaggcgttg ctctgtttta tttttgaatc taacaacatg tttgtgtctg atttggatgc 360  
 ttaagaagtt gttgttaaaa gtctgccatc tgatttgact tatccataga atatctgtcc 420  
 tgттаattca tttttctaат gcctattaat caggтactat ctccgtgacc gttggcg 477

<210> 28521  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28521

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 tnttgгааag atggtgtatg ggatcttctt aaatattgcg gattccatta gaaacatcat 120  
 tattctagtc ccttaattat ggggaagatc acattatttg gaggccttct taaatgggta 180  
 ctctctcttt gaaagattct tatctttttt tggtttctag atcaaatgag gttagttggg 240  
 ctaaactaat tttcaataat tntatccctc ctttagaatt gttttctct agcatgctct 300  
 ttataccaag ctccaacag acgaaaactt gaagaaaaga tgtataacaa ttgttttcaa 360  
 tgtgttctaa ttgttgcaat agcgacgagt caacataaca cttgttgtct taatttaagt 420

tttgaaatac aataaatcac actagaaggg ggggtgaata

459

<210> 28522  
<211> 367  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28522

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tcatttgcac cttgtggaac taattttaag ctatgtaagc taaaataaac cattagcatg 120  
tgtgcgtatg atatcttcat agattagggt ggtgaccttt attttgcacg atttggcaat 180  
gtctcactat aagttgtaga tcatccatta attaaaagga ctgaaaggat aagatgcact 240  
anataattat ctttaagtcac ccatgatttg tcattcatat aatgtttcta tttttttttt 300  
ttaaacaag ctgttgactt ttcttatctc caataaattt atatgaaaat taccatgagt 360  
tattaaa 367

<210> 28523  
<211> 442  
<212> DNA  
<213> Glycine max  
  
<400> 28523

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gagaatatcc tatgtacaac cattaaattt caacaatcaa gtatgaccaa agaaatattc 120  
cacacaaagg tataactttg caataatgat aataatatca tgcaaggaaa tgcatacttg 180  
actccatgaa aattttcacc accacatgag ctgttacgga taaagatcaa gctagctggt 240  
ttcgaggacc atggcctcca tagaagagaa gagaagacga aatatgtagg caaggggtat 300  
tttcattcat gattctggtt tatttacata cttatttata ctatcctcta ataacagaat 360  
tcttatcttt gtgtgcaaga ggaatatcac agaatacaatt ccgttaagct tgtcccctgc 420  
tctaacagca tcatcacaca at 442

<210> 28524  
<211> 407  
<212> DNA  
<213> Glycine max

<223>       unsure at all n locations  
<400>       28524

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ggagcatgaa attgaacttt gagttgtgtc tcacaagact cccattcatc anagttacaa   120  
caagtgttac acatgcttct atttatagac taggtagctt ccttgagaag ctttcttgag   180  
aaaacttcct tgagaagctn tcttgagaaa acttccttga gaagcttctt tgagaaaaca   240  
acacacactc atctaaaaac taaactcacc tccttgagaa gctagagctt agctacacat   300  
accctctta taactaagct caccttcgtg agaagagaaa ctagagctta gctacacacc   360  
cctattatag cttagctcac cccatgacaa aatacatgga aatacaa                   407

<210>       28525  
<211>       480  
<212>       DNA  
<213>       Glycine max

<223>       unsure at all n locations  
<400>       28525

gacacaagat actaagcttg aggattatgg ngtacccatc acatgtggta ctatgtgttg   60  
gncggggcgaa ggtgcacaac aagtttccca catccacaat gcgcgcataa acccaccatc   120  
ccctgttgcc cacctccaac tgagctcacg tactcccacg tagcccatat cctcgtttct   180  
ctcaacaccg ggtccccatc aatcctccca agtttccaca acatccaagc aaaacaacat   240  
tcaaacagca taagctatca cagccaagca aaacagagca aaggcagaaa actctgtctca   300  
acacatcaac caaaatcaca gctgtttctca cttaaagacc acagtaacaa ttcttttgat   360  
ccaattcgtt aaccgttgga tcgactccaa aattntactg gaagtctata gtgcataagc   420  
ctacantttg accgttgga tctactagca aacatccaaa actcattctg tactactctt   480

<210>       28526  
<211>       240  
<212>       DNA  
<213>       Glycine max

<400>       28526

tcttttttga gacaaggac tacaatagca ggggtttctg tagaatggcc ataaaccatg   60  
atatgacaca tatctctctc gtctatgtac gatgaaataa ccactttgga tcttattagg   120

aggatctagg agcaattcta tcaaaagagc gcagttatct aatagtatct cttaaaaaaca 180  
ataacgagaa ttattgagcc atatgacgat atccagattg cggtagctag tctttataag 240

<210> 28527  
<211> 500  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28527

cgctngnnn ggtagtcatg aacgtacngc atagcanact cangaacata gaaccccacg 60  
cttcaaacct aaacgctgga actcatatca acaatttcat ttgtctccca agcatgcaca 120  
gcgaagcgag gtgcatggac atcatcccg catcaaacgg atcagattac acatatgacc 180  
tctcaaatag aagatgtatc aatgaagttg aagaacttct agtacgtgca agaaaagtat 240  
atacgaatgc cttgtctctaa gtaggatgta atacgggaca cggaatctga gctgacatgc 300  
ggacaaacag actccatata ttcataaact agacatactc taaagctctg aaccaccgag 360  
tttctcgcat tgaggagacc taactacgag agtctgcacg ggtgttttac gtgaatgctc 420  
ctcgcagaac acctgcaaag cacatatctc tacgacaaat tcaccacaga gaccactacc 480  
gagacaaatg agatatatag 500

<210> 28528  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28528

agcttggttg tcccgatagt atgtataata ttttctttca tctcctttca tcctatccta 60  
taagttggta ttaattaatt agttggtata gttgtctctt cttagtgtat aatgacgaca 120  
aagaaanttg aatctaaaac tttgtgtaaa ttatccaaac cttcactatg ccaaccttag 180  
taggttgatg ttgttggtgt gtgtgatata caagagctaa cttggaggat aagtttttgt 240  
tggaactgat gttgaaagaa gggaagaaaa ggtttaataa tgggggtgtt tcataatcta 300  
tatttacttg ctgcaccata tgaagaaatt ggtctttcac aaaattatct attatct 357

<210> 28529  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28529

gagaccaatt cagagacaag agaataagac tgatcaaaag ggctaacaaa gaagccaatt 60  
 gcaatctacc aaccctaaaa agctgtacct ctttaatttc tgtacttaac gaccccatgg 120  
 ccagggatat aacgttttct tgctttattc ttcattntat cggagaaaaa gcagaggtag 180  
 taaatgcaaa gtttttattg agagccatan aaatttcta acaagcacat agacaactcc 240  
 cttttgtttc ctgtgacctt tcttccctc tttntgttac ttactaccat catcaataat 300  
 gatagcataa caaatctaaa catctcacat cataataatg gatgaaattt actctcactt 360  
 attatcaaat gggaaagcca atatacagaa aaaacacaca aact 404

<210> 28530  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 28530

acattcacgt cttttggaaa gagccgctaa attaagttct cagttaggcg aatgacgtat 60  
 gactgcttta ccaatagttg aaactcaatc cggagatggt tcaacttata ttctactaa 120  
 tgtaatttcc attacagatg gccaaatatt cttatctgcc gatctatcca ttgctggaat 180  
 cagaccgct attaatgcaa gtattttcgt atacagagtc ggatccgcgg ctcaaattaa 240  
 gccatgcaac atgtagctgg ttaattataa ttggaataag cccatttcca gaattagaac 300  
 ttctgccccaa tcgcttctga tctcattaag ctctcaaadc attaaccaga tgtcacgatg 360  
 gcccaattgc ttaac 375

<210> 28531  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28531

ctaagcctcg cgaccagggg tcttcgtaat agaagagaca tacggctatt agcctgtgct 60



tgttcggaga gatcgtcata catgattaaa gtgtgacgtt cacggtacat aaaatattca 120  
 gccagagctg ctctgtata aggggagagg tatttgtaat tagctggaga atccgctgtc 180  
 tcagctacta caatagtgtt ttccattgct cctctttctt gtaaagtatt caccacttga 240  
 gccacagaag atgctttttg accaatagct acataaacac atattacatt gtgtccctgt 300  
 tgattgagaa tagtatctgt ggctactgct gttttaccg ttagtctgtc tacaataatt 360  
 aattctcggt ggccacgtcc tatggtgatc atcgaatcaa tagcaataag tctgtttaga 420  
 gaggtcata tacngaacgt ct 442

<210> 28532  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28532

aaatgtcgag atctagactg cntcggaac nccanctgag aatgcgcaga gtaattttta 60  
 taccgagtga gggagtaggg tagttaacca caaataaggg gttggacatc actacactgt 120  
 ataccgaatt gataactgtc agaggggtata atgattgact acgcatacta gagaacctat 180  
 actctttagt tagaggaagt aaatgatgga agtatatatg aacgagtata attggagcgg 240  
 aacagaacta ttgaaagttg agggattaag tggaagtaga acagtaaaag aggccgaag 299

<210> 28533  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28533

agctntgctt ttattgactc ttcatgtctg gtcaagagaa ccattagaag agttgtgact 60  
 cttataaaaa cttaaaacca agttgaataa gtcaaaaact atttgaagag ttacatcttt 120  
 tgatttgctt aaaaactatc actagaaatc gattaccaa tcagtgtaat cgattacaca 180  
 aagcttttta atgaaagaat gtgactcttc atatttgaat tttgaatatc aacgttcacg 240  
 cacactggta atcgattacc aaaacattgt aatcgattac agcattttga aatcaattga 300  
 acgtagtaaa ttcacgtgaa aagcttctga aaaccatttt gtactagtag tcgattacaa 360

aatctggtat ctataccaga gagtaaaact ctttgттаac atgttt

406

<210> 28534

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28534

acactaagct agatgctacc gganagatta agaatagtgg caagctgtcc tcattccaga 60

tttctgagca actcettcaa tgtttctatg agggacttag caacatggag aggagtatga 120

ttgatgctgc caatggtgga gctcttggtg atatgacccc tgttgaggct aggaatttga 180

ttgagaagat gacttccaac tccaacaat tcagtgcaag aaatgatgct attgttctta 240

gaggagtcca tgagatggcc acgaattcat cttcatctac tgaaaataaa aagctcgaag 300

gataacttga tgcccttggtc aacctggtaa ctcagcttct cattgaataa aaatctacac 360

ctggtgcaag tgtctgtggt ctatgttctt ttgcagatca ccatacagat ctctgtcctt 420

ctttacagca atctggagtc aatgagcaac ctgaagctta tgctgcaaac atttat 476

<210> 28535

<211> 178

<212> DNA

<213> Glycine max

<400> 28535

cagggcacta ccatgaacgg ctagcggggcc gttttgacaa cggaatgatt gtcggaagtc 60

catccctcac acaggaacgg ggagagaccc ttggctgcct cagagcgccg tagtgcacac 120

tggcccgaat agtaçaccat gtacattatg gaccgagctc gtaaaagccc ttatggtc 178

<210> 28536

<211> 249

<212> DNA

<213> Glycine max

<400> 28536

agcctgaatg gcgaatggcg cctgatgcgg tattatctcc ttacgcatct gtgcggtatt 60

tcacaccgca tatggtgcac tctcagtaca atctgctctg atgccgcata gttaagccag 120

ccccgacacc cgccaacacc cgctgacgcg aaccaccttgc ggtcgaagaa atataactac 180  
gatattgttg tcataggccg ctgtatcgca gagcttgaca ttcattgata tttctggaca 240  
ctatctacg 249

<210> 28537  
<211> 484  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28537

nnnaaccgcg gagaactgga ccttgaagna cancangtta atannactcc gacccgggat 60  
cctctgagtc gacctgaggc atgcaagctt cctctanang ctgtagcttc tggaggaagc 120  
aacctggctc gcctgtgcga gctgagctcg cctgtgagcg ctgnngcggc agcatctccc 180  
ctattntgct atatataggg gaggaagtga agaagaaaag gttcagcccc ttatgcactt 240  
ctctctcttt cgaatttgct tggacaaaatg tttccgtgaa gaaaatctaa ggcgatgcgc 300  
tttcgaaacg ctttcctaac gtttgcgta tgaanttcgc aaaaagggtt caccctctt 360  
tcgcggtctc cattcggtct tcatagtctt cgatcttcta cgggtaagaa cctcaaacia 420  
cttgtcgatt attctatgac ccnnggtggt ccacattgcg gtcattgaatt catactcggt 480  
ttct 484

<210> 28538  
<211> 452  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28538

gaccatagct actcagcttc ctcaagtggg attatagcac aagagcctct ttgttggtgt 60  
ccttatacct ccatatattg gttgctttac cttctcttct attgttgatt cttcattttt 120  
ctccatgtat ctctcacad gtcttggtgat aaatgttttt aacatgatta tttagagttt 180  
ccactgatta aatttgctat agaagctaga tttgattttc tatggttcan atttcttggt 240  
cttggtcttg aaccatgaan tttgttgagt ttaggctcct ttgagttttg tcttggttatt 300  
ttttgtggct gaaaccgaaa ccataacatt cttacaaaaa tattaaagta taagacaacc 360

tcaaaaatct agagtgactt gttcacctat tgtagttttg tcatagaagt catgtctagt 420  
tatgaaactt gtcacataag aattcttatg tt 452

<210> 28539  
<211> 226  
<212> DNA  
<213> Glycine max

<400> 28539  
agcttgattt actcttcaat ggaaaatcaa ctggttagagc taaatgggtg ttaatgaact 60  
tttaaagaac gtatagacta tagtggactt caaatcatgc aatcagacga atgcatatac 120  
atacatcaaa ctaaatatgt gaatgaactg ttaaagaagc ttaagatgga tgatgcaaag 180  
tatatgataa cccctatgca tctaaccaat gtacttggat tggatg 226

<210> 28540  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28540  
tagtaccttt tggaagagca acgaattaac gacgacttga ctttgcncga tactccaaaa 60  
ggggaggaat taattctatt ttgaattatt atcgtcttag ggtggaaaca ctaagtacaa 120  
tgcctgttat acgtttttatc tcacaagagg gtctaagtat tgttatggtg agaaaatttt 180  
atgaattgta tacggtaaga ttggatcatg cattcatgca taaactcaca attattggtg 240  
ttgtgagcat gcgcgtaagt ctattttacta gtgtgggaag gtcagctgag cgaattcacg 300  
tgtgatcaag gtcattgcan acattatgcc atagtagcta ctaccttgat atgcttatcc 360  
taacaatgtc actaattact ccataatcag tattgatgtt aatatccctc aatggatatat 420  
ggcatgtctt gcatg 435

<210> 28541  
<211> 317  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28541

acttgtttct atacacacat actgaatcga ttaccagagg agatttcaga anattttctca 60  
gcagtcacat ttttcattgg tcttgaatgg ccatcaaggc ctatatatat gtgacttgag 120  
agaccttggt atcatgtggg cctttcatac cgggcgtaa cttgactggg cacacttaat 180  
cggatattgc atgcataagg cattgcgatt aaatgggtcca ttgccatata cacaccttgt 240  
cactctcttt cttcgncatt ntcaaattct tcttcattct gaaccttatg ttccaatcaa 300  
aagatccttt ttaattg 317

<210> 28542  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 28542  
atattcatgg gcaggaaaat gatctttgat caagatagtc tagacacaat tgccaacaac 60  
aaagtccaca gatcaatgct tctgtcagcc tataattaac ttgtattttt cagtgggaagc 120  
tatcaattga gcatgagttt gttcgtgcac ctggcgaagt taggagatga actcctcaat 180  
ggtggtatag gaacacactt gactagggaa acttagcaag tcaaaggggg ccacgagtaa 240  
tcatgcaata aataacgtgg aaaggactag cctggtacta tgattatcga cattattgtg 300  
agaaaatata tcttgacaga gtctaacatc ccaagacttt aaatgatcgc caacccaaat 360  
gcatagcaag ttaccaaggg aacgattaag cacttcaatg tcaactgtag tttgtgtatt 420  
gtaagcac 428

<210> 28543  
<211> 629  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28543

acgacgagat tgttcttatt tccgatcagc cactnngcca nntncaant nanannttnc 60  
tgtacaacac ggtgcatcnc tcntagnagn tcggaccctt gcagtgccat cgcacnagct 120  
ctttatctta tgatanntga cncacgnata catcanctct cgcacaatga aacgagacat 180  
tgtgtagcct tcacanggtt cgattagttg cccttacaaa ttgaaacgga cgagtgacaa 240  
gcatgttcac tcacagggtt atatgattga cgttagaacc aatctctata ttgcctcata 300

tttgccatta ngccacttag tacctctttt tctatcttct tcttattgag agtgtctgcg 360  
 tgatcggaat ctatgttctc taagatataa tacacactta cgtgtgtcat cgctcactgc 420  
 tctatactcg tctctgagcg ccgtatgctt ctgcttttag atatttgaat actaacaaaa 480  
 caattgtttg cagtttggct tcggatgcta tcaagaagtc tgttgatcaa aacgtctgca 540  
 atctgaattt gacttataca tggaatacct gtctgttaat tcatttttct aaagcttatt 600  
 attgtctact atctcgttga cgtctggcc 629

<210> 28544  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28544

gcatttgcaa gctttattat ggtnnttat gtttgctct anttgcattg cagatgctg 60  
 gtgagaatat acanccactc acaggtgcc agtttttatt cnntggaaac nntccacgag 120  
 tcnnncaggt ttgaatttnn tttggttcat gaattannaa aattttcatt attcatcann 180  
 aaagtntttg ggttttccca tctcttcttt tccattgcc attccatcct cattctgact 240  
 ccgttcaccc tttcccatte ccattctctt ctgatccctt tctctcactc ctcatttttt 300  
 ctaaagagag aaaagggttg tgacaacaca aagaaagaag agaaagatca gataanaagt 360  
 ggtaacgtaa tttcatgaga gaaataaag 389

<210> 28545  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28545

tactcaagct taagctgctt ggacaacaac ttgttctatg ctaacaaagt atcctgtgat 60  
 gacaactcaa ccaaacttct ctggtggga atatgtgtcc tatcatgcaa gatagcgtga 120  
 tcactagcag ccatgttttc tattaattcc atggcttctt taagagtctt caacttaatt 180  
 ttacctcta cagaagcatc aagtagctac tttgactgcg gccttaaccc atcaatgaaa 240  
 attttttagct gtataggctc aaagaatcca tgcgtggggg tcttccactg caaactacga 300

aatcgttcta aagcttcact caaagattca tcgggaaact gatggaatga agaaattgca 360  
gctttntcct ttgctgtcct ggacttanga naatatttct ttaggaactt ttccacaact 420  
tcataccaag tccttaagct attaccttcg aatgaatg 458

<210> 28546  
<211> 490  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28546

agggatcggg gtcgttgant cagttancnt ncntgcanan tcaatnanna ntacgancnc 60  
ggnacnccgg agagtactct ttagtgcgag ctggcagcat tctattcttc tttttatcaa 120  
ggctcatcat cggcggggaa agctggcgga nttcatggca aacttcctta ataggatggc 180  
gactttctct cagcctttaa tcctttggat ttcacagcat cttcatacgg gataatcacc 240  
atttagggac cgaactgatg cacaaagata catccgttat agatacccaa caacaacaat 300  
catcacttac tctcaciaag ccacctgtga cgcagtatta ttggcttgct cctgatccag 360  
agctaactct caatggcaca cataagagga gtgtcacgat actctgccc accctgggat 420  
aggtgattgc ttgacaactc cggttcaaca acattgggat gaaacacgat ctagccctaa 480  
ataatgcacg 490

<210> 28547  
<211> 340  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28547

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atcacgatta tcgtctccct ttccattatt gngggtagca cctgngccgc cagatccctc 120  
caccttttgg gcgtgttctt tgaatgatcc gcccccttt atgcacatgt tctgtagttg 180  
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattat 240  
gtccttccaa gaatggactc tggaaagtgc caagttaatg tccaagtaac agctacccca 300  
ataagacttt cttggaagga atgtatcacc aattcctcat 340

<210> 28548  
 <211> 111  
 <212> DNA  
 <213> Glycine max

<400> 28548

tcaaaggagc cataccaatg ctggcttggg aactattggt gtaagtaaac tcaatcaatg 60  
 gcaaacaatg catccagcta ccttggtgct ctataatata cgcccgaagt a 111

<210> 28549  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28549

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 ggcgtgcatg gtggaaggga ttttgtactg ctatgattat ttggggaaaa tcaaagggtt 120  
 caatgtgggg cgcgaggtgt gggaagagtt gaanggggtg gagaaagggt tgcccaagtt 180  
 tctgtgtggg gctacgatga ctgatttggg tgggaaattg tgtgtggntt gggagtgtca 240  
 ggtgaatggg catgaaatag agatttaatg cactgagatt ggagtg 286

<210> 28550  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28550

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 ggggtagagg gtgtcacatt gtggtatctt ccaatcaaaa cttgttaatt aactattttt 120  
 tatcaacaag cagctgtgtc tccagcaaaa cctccaaaaa gcctggatca tgaggtcgat 180  
 gatcccctgt atctgatgac attgaccatt ccacatctat ttttgaaacc tgtccaggtt 240  
 atgtgggatg tttccctatt cggactgttt aattcaaact tccccttgta cataaagcat 300  
 gaagatctat ctgaaatagc acacggtggg caatgtctca gcatctctgt tatacagttg 360  
 tggattctat aagtcaattt agattactat taattaccac aataattgct ttaaattgcat 420



acataattaa ctttgtctta acaacacatg

450

<210> 28551  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 28551

cctgcggcat gcaacatgtt atcttatatg ttgacccgta tgtggcctca ctctaacta 60  
gcatccatgt ggctatgtaa gaccaccaat atcgaggagg cctggtagca ttgttgggcc 120  
ctattatttg tcgagtgtga tagttagtgt tgtctagtgt gactatcaat aatggtcagt 180  
gtagtatttg actatgtcaa gagtgatagt caatgggtgt aagtgtata atcatttatg 240  
gcaagtgtga taattatgcc ctct 264

<210> 28552  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28552

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nacanancctc gattcgtact aaggagttgt cgtcttgttt gtttagaaat taatctaata 120  
atctcatgta acccgtcaga tttatttata agataaatga atggatatgt ttgcctgttg 180  
tctacgggat gtgggagtat ttacacaaaa taagatattt gataaagata ttccacatgt 240  
tgctgaggtt tcccttttat ggacacctgt ctaacctatt atgagtcgtg tctgcaacga 300  
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tagttgcaa ctctcttcca tcctatcttc ccccggtt 400

<210> 28553  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28553

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cttaggcact tctctctctc tcgaaattgc tgaggaaaat tatttccgtg aagaanatcc 120  
aagctgaggc gcttccgtaa cgtttccgtg agttattatg cgaagattct cgaccgttct 180  
tcaagattca tcgttctgtc ttcgttttct tcagacttca acgggtaagt acctcaaacc 240  
atgcttttca tttcattcta tgtaccctgt gtgggtccaca ttatgtttca tgcaatttta 300  
ttctcgggtc atttgctttt ataccactt ttgacggcta agccatttat ttagtcattc 360  
tcgcttatct aaaataaaat aaattgcacc gatcgt 396

<210> 28554  
<211> 479  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28554

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tacttcaaaa ccccttgatc tacttcacat tgatttattt ggtccctcta gaactatgag 120  
tttaggtgga aattactatg gcttagtaat agtgggtgat tactcaaggc tcacacggac 180  
tttggttttg aaagccaaaa atgaagcttt tgatgttttt tgcaaaacttg ccaagggtgat 240  
taataatgaa aaaaggtctt aacattgttt cacttaaaaag tgatcatgga ggtgaatctc 300  
anaatgagtc ttnttaaaac ttttgtgaag aatatggaat tcaccaatat ttttttgccc 360  
ctcagaacac ctcaacataa tgggtgttgt gagatgaaaa atagatccct tgaagatggt 420  
gcaagaacct ttctaaatga aacaaagtta cctaagtact nttgggctga tgttgtaca 479

<210> 28555  
<211> 596  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28555

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ccgacanena ctacgtgtat gacgcttgac agtctctgga taggctcaat attttgcctc 120  
cttattatac gtagtgctcc gcacaatgaa cggggattgt gtacatgtac ttctttcgct 180  
ctccggtaga ccgcccctct ctataaagat tgatggctct tgctgattca ttatggcgaa 240

ctcaattaca ttgactagga tactcagccn atgtatgcca ttacggcgta tgtccactgt 300  
tgaatattaa tgtatcatca ctacattact acctacgcca atatatgtat tacgttaggt 360  
gtggcactga tgagtttcgg gnactaattg tttcacctca tagctctggt tagatgatac 420  
tctgagtacc atttgctctc gtcgatccac tacttactgt actaaagatc gatttcgcga 480  
gagttatcaa ctatactgta cgttcattac tcatgcgtaa gatcccgacg atacgattgt 540  
cgttctgatt gtgacgccta ccttatcgtg acatagttat acagctcgta cattct 596

<210> 28556  
<211> 426  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28556

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aacatgttga ccctgctcac tcacctgtat ggtctccac ctgattttat gcccccgtn 120  
gcatacacia tagaaccac tcagccaatg gttgaggttt tgataccgac taaccaacca 180  
gtttatttca tgcctccagt gaaccacaag atgacacggg tcatagaagg agttccaacg 240  
acctgttcaa atgagcaact acaaagtgtg gaggagaggt cgaaagctat tgaaggtagt 300  
aattatggca tgggtggaagc tgcagatctt tgttcgattc ccgatgtaat tattcatccg 360  
aagtttaaag caccagagtt tgaaaatact aaggaactag ttgccctaaa gtcctaagt 420  
attatt 426

<210> 28557  
<211> 282  
<212> DNA  
<213> Glycine max  
<400> 28557

attgaccggt ctttatcact gagctgcact tgtttattga ctacttgca gttccaagca 60  
tgctcctgtc attatacagc ttgaggttcc ttgggactta ttaccacgg gaaacttgaa 120  
aatctggatg ccttgagaaa gaagcttttt ttaggtctat ctctactaat tctaatagta 180  
aattaccaga tgacgggagc aacaatgggg gggatcagaa tgtggacaag caatctgctt 240

caacatggcc gtcggactcg cctttactcg ggggctttca tt

282

<210> 28558  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28558

aacaagtaac tagttctatc ttgtaaaaaa aataatgtaa ctaattaact aacactaata 60  
tatagagtga ctactcagaa ggaatggatg agccttgatt aggaccatct aatctacctg 120  
gttaaaactaa ttacacaaaa catagcccaa actgcgagcc caattattta agttcagaga 180  
ttctaacttc caagctcaaa ttgacctca aaatggaaga atntgccaaa gcttatttgt 240  
aacaaaattg aattttatttt tctcatcttt ctagatacta ctcatacatt ccatttgaag 300  
ttctatagtg tcctctaggc cctgcacaag gcagataagt caagtaagca caaaatttga 360  
aaattagcta caattctcaa ctaagctcaa tcatttgcct aagaccanaa ctgagttaag 420  
gtgagaaaat aagagtcana gagatgtcaa ttg 453

<210> 28559  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28559

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gcagcatgaa gctttttctg acctgacatg caacgcgtgc gagaaaccta acatcctaata 120  
ctgtggccga aaatctttat gtgtgcaata atgggtatcc cataatgtcc agggggcgaca 180  
cacttggcag gtttgttgaa acaagacgag attgcatcat caggcaagca accttcatca 240  
catatcattt tgagcaccat aataccctcc atttggctct gttgcataac tggcaaactct 300  
caattctttg tgagggcaca actgtctaca ttctttatgc cagatactac tgcttgcg 360  
ggtacagtgt taccaacttt tcgcg 385

<210> 28560  
<211> 281  
<212> DNA

<213> Glycine max

<400> 28560

gacacataga tactaagcta ggcgcatatg taccacaacg atctccgttc ttactttgat 60  
tcaccgaaaa aatgccccat tacaacaga gcaactcgca cctatatata acacgacttc 120  
aaagagatat gtacttacat acacgctcct tgggtaattc aatcatgcgt actcaagcgt 180  
ctgaggacca aactgacaca tgcgcacata tcggtttgct atacctatcc tacacaactt 240  
atgatgaact gactatcacc tatagggctc atatatgctc t 281

<210> 28561

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28561

acgggtctctc gactgcnctg gagcccggca gaggatgggc cgctatTTTT aaagaaccgg 60  
gagcataaca tctctcagag aagggctccc agcaggcata aacgaattcg acgaaaactg 120  
cgcatcacat aatctcattg aaaagcaggc taaaaagaag gaagacggaa gggaggaaag 180  
ccgcgaagac gacatagaaa cgcctttccg agttagaacc ggagtgacta gatctcg 237

<210> 28562

<211> 308

<212> DNA

<213> Glycine max

<400> 28562

agcttgggta tgatgcttca atggaggaaa agaaagaggg agagaaagag agatggggga 60  
gcatgagatt gaatgaagaa aaatggagag aagttgaact ttgagttgtg tctcacaaga 120  
ctctcattca tcaaagatac aacaagtgtt acacatgctt ctatttatag actatgtagc 180  
tctcttgaaa agctgttttg agaaacttcc ttgagaagct tctttagaaa actttcttga 240  
gatgctagag cttaacttca cacaccctc tcataactta actctccttc ttgtaaaagc 300  
ttcttatg 308

<210> 28563

<211> 437

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28563

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tggagggaat caatacagat gaaataatga agtggacaaa gatcaattat aggttataac 120  
caacccaaaat tataaataag tcataaccaa aatataatcc aaacagtcac aattcaaaac 180  
cacatagaat ctaaacataa aagactcaag tccaaataact aaaagataaa taaagtgcag 240  
aaaatgataa cttaactacc atagccaata tacaaggctt aaaagaaaat tataaactaa 300  
actctaaaaa ggtggaagtg gtggtggaag gtccaatcac tgactaatat aaccacatc 360  
ttcttcaagc tgtgtgagac agatatccat gccggcaaag cgagtatcca gagaatcata 420  
acattcgcca acataag 437

<210> 28564  
<211> 603  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28564

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gaggcaaccg ngagnantac gacctgacag gcanngcgaa gctttagctc tattttttat 120  
gaagagnaca ccggcacaac tgcacgagcg cagttgcagt gcgtgacttg catatttggc 180  
tcgtctactc tatatatgcc tgtggaanga catattctac atatctctga tatctggtga 240  
aagaaacttc gcctatggaa tagacgttcc taggtgtcct ctctatacgc atatgcagaa 300  
gcacatacgg ggttgggtgt gaccatatca ctactctggt ctcttcttgc ttgacgaata 360  
atatgtatct ccatatggga gaatggacag aatggaatat ggagtcttcc ctgtgatccc 420  
ctgcatgcct gctgaacttc gagtcatagt gccattccac tctttccatg gttgcggcct 480  
ctcaaggagg acttcccgtt gatgctatcc gggcccatg caagagatgg ttacctgatg 540  
atatttggcg ctttgcgcga cgcggattgg aacataattg tgtggacatt atgctgacga 600  
acc 603

<210> 28565  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28565

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 atcttcacaa acaagtact tgaagaattg tgacttttgg aaatgtattg tttgaaatca 120  
 ctcactggta atcgattacc attaagggtat aattgattac acatcaatag atgtgacttt 180  
 tcattctgaa tcttgaatat taaaacatgt acaaacactt gtaatcgatt acaagtattg 240  
 tgtaatccat tacacaagtg taaaatgatt taaaactgct gaaatttgaa atctaacatt 300  
 ctaaaacact ggtaatcgat tactaccttc tggtattaat taccaaagag taaaactctt 360  
 tggtaatgat cttgtgaaaa cttccttggtg ctactcaatg 400

<210> 28566  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 28566

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 tgacaaagtc tacacaaaaa atgggaaaag aaattaaaaa attacatttg tttgtctatg 120  
 atcctcaatg cttattatca ttattattct ttatatTTTT atgatgggac aatcaacttt 180  
 actctatata tctcattgtc ttgccagggtg ctatgtaatc ttacgattgt atcttgatga 240  
 acttcaactg aaatttggac tcaaccaagt tttggtgtca aaaacaagta aaacaatttt 300  
 caacttcttg gttcagctca cttgctcacc aatcaagtcc aaaccatta tgagaaatga 360  
 c \* 361

<210> 28567  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28567

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tcaattagac tttacccgta tctttgtgga tgtatgcctt gaaaactgcc atgtatttgt 120  
 tggacagggt tcctagtaag gcagttccaa agacaccttt tgaactatgg acaaataagga 180  
 tacctagtat aaggcacctg catgtttagg gttgccaggc agaaataagg atttataatt 240  
 cgcaagacag aatattggat gcaagaacaa tcagtggata tttcattggt tatccagaaa 300  
 agttaaaaag gtatatnatt tattgttcta atcat 335

<210> 28568  
 <211> 130  
 <212> DNA  
 <213> Glycine max

<400> 28568  
 ccgtaaacad ttttaattta gacacgctat gttgaaattc tgcattaact gattatttat 60  
 attaatctag cttacatcat tcgttaaagt cgcccattac tgcctataaaa tatactcccg 120  
 ccctcacccc 130

<210> 28569  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28569

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 aggtttgaga agtgaaaatg agaatggggg aaattttgag caaactctca cctcacacaa 120  
 gtctataacc ttaatctaaa cttgctcaaa ctgggttttat gcctaaaatt ccaccaaatc 180  
 aaaatttgac tcctcaacac ccaaatttta ccctagaaat ggctctngcc ttcactntgg 240  
 gtcttttggt tttctctctt gcacagccca agctttctca taagttctaa atgacacttc 300  
 aaactatgac taactcactt taacctgcaa tttttactga ntccagaatt agccttttca 360  
 acccttaaag catcacactt tttccactca taacactaca 400

<210> 28570  
 <211> 460  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 28570

cctntgaaag aagaaaatgc cagtctccgt tcagaagtga tccttatcag gagtgagtat 60  
gagcagctac gttctgagaa tgctgccctc aaagtgattt tgaaatgttg atatgttttg 120  
atttttgtct tttttgctaa ttggcaagca ctggtgceca taccaagtta tacctactat 180  
caataacact catatttgaa ccctggtttg gagagaagga aaaggcctaa atggactaat 240  
atgaccattc tagttttcaa attccgctcc tactaccata aaaggttcat tcaaagactg 300  
agccacctat ctgattacag gatagacttg gggagatacc tggagtcacg acacctgtga 360  
atgaggatct tangtctggc cagaatgatc agcatgtgag taatgacact tcacanagtg 420  
gtcagacaga tgtggtgcat ggagttcatt aagatcttgc 460

<210> 28571  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 28571

agctttctata ctttggttta ccttgaatca attcctgtga tagccctatt gagccttgta 60  
tccctttcct tgttttgaag ctactacaa gccttaagtg aaaaaccatg atattaccat 120  
atccttaaag aaatttggag ctctggaatt gttttgggaa tacgtgtgag ggggttttgt 180  
ttcattggac aacttgattt gttggctatg ctacatgatg tactttgggc catacttg 238

<210> 28572  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 28572

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tggagctttg caattgtttt ggcaataact gtggcgggtt tttgtttcat tggacaactt 120  
gtttogctgg ctatgcttca tgatgtatta tgggccatac tcgatgtaca ttgtatattg 180  
gttaaatgtt ggacatgctg aatgaaatgc tgtgtctcac acgctataaa gtaaaaaaaaa 240

<210> 28573  
<211> 470

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28573

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gacctgoggc atgcaagcaa tgtaattgat gcagatatna caacgctgaa gcaggggtcc 120  
tatagattca aaaatggggg cctgaacctt ctgctttctc ataccagata attcttaaaa 180  
catttgaaca gggtaccata tattcttgta ctgctgcctt ttttttccct ttaatagtta 240  
atactcttga gccactaatg gcggggtcgt agattgcggt acttctgggt tcctgtgaca 300  
ttctttgact aaacatcata tatgatcact gtctccttct taaaaaacia aatccctaata 360  
gggaattgaa ttgtggattt agacgatgaa tggtagacac ttgcgaaaaa tataaactgt 420  
aataaaggcc aatgaaggca tttactgcaa ccaatcttga tatgatgtcg 470

<210> 28574  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 28574

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ttactgtaga caacatatga atgccgacgg gggtagaga gttcttatat agatttggca 120  
gatttctgat tctgggtcgt taactaagag aatgcgaatt attcccagta tatggtcaaa 180  
ctccaaaggc ccagtcagtc tact 204

<210> 28575  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28575

naagcttttt tatgttatgt tgcctttaaa agatgttgac agcatatgaa tagaccagcc 60  
tctggccata tgttattaag tattaattac gagcatactt aggcctacca aaatttaacc 120  
taatcaggcc tatttcaacc ggtagttata aatatgttaa attaatttgt aagtctttat 180  
attatttaata aaatttaata aagttcttta attatatatt tcttttatat gagtctatga 240

acttgcattt atattctaaa taagtcccggt tattcttaat tagttccttg ctaagaccta 300  
 attaaatatt agatacaagt ctaacgatct aattgataaa aaagctaaga attatttaaa 360  
 aataaataat agttcaaaga tta 383

<210> 28576  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 28576

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 gtcatttggg ccttatgggc tgacaatacc cgccgttcga gaatggatgat tgacctcaat 120  
 gaggaagata aagaacggta tccacccgag cacatgtatt gaggattttg gaaatcgaag 180  
 aagacactga gcaagtgggt ttggaagttg tctctatagg agacgtggct ttcaatggcg 240  
 atggaggggg caattctaca aggtgatgtg gtgaggctga atacactgca atctactaaa 300  
 catcc 305

<210> 28577  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 28577

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 ccctcgaaag caagaaaaaa gaagagaagg aaaatttcca atcaaaggaa aaaggagaag 120  
 gagaatttcc aatcaaagag gaagcaaaaa aaggagagaa ggaaaatttc caatcaaagg 180  
 aaaaaagaga ggaaaggaaa ttcccaatca aagagtggga gaaagcaaaa agataagaaa 240  
 gaaaattccc aatcaaagaa tgggagaaag attaaaag 278

<210> 28578  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28578

actaagcttg tgctgagctt gtatacccta atttcgtccg gggactttgc ttttgacatg 60  
cgacctttgt ttggtccttg taagggtgctt ggcacccatc attangaaat ttgtgaaatt 120  
tcgggacatg ccgaaaaaca aaagaaaata ttgatgcaca atccgtaagg ttccgtgaca 180  
caccggaaat caaatggaag catcgttgca taattagtga ggttccgtaa catttcgtaa 240  
gtcaaaaagg ggatgattat gtaatccgca aggttccgta acattacgga aagaaaaaca 300  
gtatcgttac gaaattcgta agtttccgta actttacgaa taaagaatca ccaaaaaaaaa 360  
gcagaggggg gtatacttag taaaaatagg ggtgcaaata gcaa 404

<210> 28579  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28579

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gttccaagta ctttggtttt ggtacgacca tgccctcctg atttccggct gggaaattgg 120  
cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaaccctt tacgggtttta 180  
aaagctctat agttgggcct atgctttaga gtttttccctt ttgttaaggc tttgtgtctn 240  
ttgtttttga atttataata caaggatctt tcttcatctg ttcttgggtct ctacccattc 300  
tcattcattt gcatgtttac ttctttttct gaaacagcag atccgatgac gagtcccccg 360

<210> 28580  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28580

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ggagccggat cttcaaaaagg caaggacaat ccctggccta ggaaatccag tgcccatact 120  
ctagtgtcac gccccagatc tctcagttgc ttctcataat ggaaagagcc aacacaaaaa 180  
ccaggaagaa agagaacatg tggggaatcc acgttctcac accctgcctt ctcatagtac 240  
acgttaagct taggcttcca ttcccaaaaag caactactta ttggagcanc cattgaccca 300

tctggcagac ctggaatgac aactttgtta gtagcaaggt cttctacccc tgcaatatct 360  
gctacatnct cttcancacc aattacatat ccatcgcaac tttcacta 408

<210> 28581  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 28581  
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ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aactctatgc 120  
aaaactgggc atgcatgcgc ctatgcggac gctcaagtg caaattttta tggtcgggtg 180  
atgctatggg tcatgattca tttctctatt ttaaataacc caacgtttca aaatatgttt 240  
tttatcaatt tgtgcattca tccgagtcca ttttgggcgt ctgggaaaat cctcacaaca 300  
ttcacccttt acgtgtatac acattttttc aaa 333

<210> 28582  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28582

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aagagagcac agatcccaaa cttatccaag tagtcttttc aatacaatta gcttattcac 120  
tagcctttca ttttaacttg tatttgacct tattacaacg acacacacta tctgtgattg 180  
cttttttttt ttctcttct tttttattga tgtaattggg ttgtaacaca acttatttgg 240  
agtgtgtgct gatgtgcttt gccttccact atacatcgcg gttaactccg ccatatttag 300  
ggaaaatttt cttgaaccat cttgatgcaa tctaccctc aaggacattg gatagaagac 360  
tccaagaaga ttgggcaaaa gatgc 385

<210> 28583  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 28583

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taccaaacga cctaaccaac taacccttgg tccatacaag gcatgactca acttattcat 120  
gcatgcaact ttacgtgaga gatgtcttcc tgcattctct ttctacacat gtgatcaaca 180  
tgaacttaaa ggagattcca aatcgtcgca ctcttatggc cagaatcata catcaactta 240  
attcatgacc tcgcttagta aaattcataa acatcattca ctttcacaat atatatgcac 300  
aac 303

<210> 28584  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 28584

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tcatgcagcg cattaatgtc cccgagacta tattggcttt gactccaaca ctggccccgt 120  
acatacgttc ctcatcacac tcaagagaaa gtatcggtat attcttaatc aaaaatagta 180  
gcccttctag atttcatata gtgataatat atgactatat gctctattct ataaggctat 240  
tttaaatacat tatctttgca tctgtagaga cataatatct ctgctatata ctacatattg 300  
taaagtatta acaaagactg actaaacatt attcttttta agctatatca ttcatataac 360  
gcgtctttct ctcttcattg ctat 384

<210> 28585  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28585

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ttctttcatt acataccaat tcatcatcat tactttcttc ctaactaatt acaaaatgac 180  
aacatcttat tgacttgcaa accaccaaca ccaaattaca gacctcgat acataatgca 240  
cacactaact agcaaagaca gacccaacac acaaccaana gaatccctat aaatttttcc 300

ttcctcttca tgtccctgat cctgctttgc aaatcttttt tcttcaactc ccattcttca 360  
actttcttca 370

<210> 28586  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28586

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ctttgaaata ttacagttc aaataaaatt acattccata aaatgatatt ttatgtaact 120  
aaaacatata agtaatatat ttagatataa atatacaagt actcattcaa gtgagtgaga 180  
acaatttggt atcccattaa gattagatct aatatgtttt atgactgtac aattatggat 240  
acaatacctc atccattgtc aatetaatta tgattatttc tctttgtatt gttcacaatt 300  
tgtatctntg cgaatgtgtt atgtccttca aaattattga tatattccct tccattgtaa 360  
ctaactctta acaatagcac acccaattga aactctatgt ttgaaaatt atttgaaaca 420  
aagaatgata attgttaaca aaaatatgat gacata 456

<210> 28587  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28587

nacgcgttcg tttaagctac ngcatacann ncaatngant nggtcccgng atctctaagt 60  
cacctgctgc ttgcaacttc tttttcatct cattanacat atgaatgggt gtgttggtgc 120  
aatcanatta ctttgaacct gtgggttttag aaccaatta gaatggtcca aactggctct 180  
actaaataac tgaagttgaa cctactggga tctttgatag gcatttaact cttactctgg 240  
tgggaccgaa cttattattg cactcttttt ataggggagt tacgtttgtg atcctggtgt 300  
ttcctcttgc cattaagata ttccaaattg ggggaggcgc atgcaagttt ttttatgaaa 360  
cctgggaccc taaaacggct gatacttgtc taaggcatgg gcggttgaag caccaggtct 420  
gtatccttgt caaac 435

<210> 28588  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28588

gccccgattg agctaagatg actnantgtc ggnaccatag aatantaagc tncgacggcc 60  
 acatnatctt gtgagtgatg catggctctg tatcatctca agangccgng ccgcctttgt 120  
 gttggtcgca cgccactgag ctctgtctgt tgctcaaaat aaacatgatg tccgcaaagc 180  
 ttatccaatt acttttaaga ctaattattt tgttagtata cccacaaaag aacaaaacgt 240  
 tgatttcaact gtttataaat tgacttttca aaaattatta cgaataaaac gagtgtctta 300  
 tgtgttatca gtaggaatct tagatgcttn tgaaacgtgt gcccaaattg gaggaattt 360  
 aaaatcacia attatgtctt aaactttttg gaagaaatat ttttctcaat gtagcaaact 420  
 cactttttat cttatctaata gacatgttaa aacattatta atagaataat ctattatcaa 480  
 g 481

<210> 28589  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28589

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 tcactaatat atacagtgac tactcagaag gaaatgatga gcctagatta tgcccatcta 120  
 atctacctaa ttaactaat tacacaaggc aaagcccaaa tttgtagccc aattgttcaa 180  
 gtacaaagggt tctaactgcc aagcttattt ctgancaaat tgaagctctt tttcttagat 240  
 ttctaaggac ttctcatatg cctccattgg tgttctgtag tgcctatat gccctgcaca 300  
 aggcagatag gtcaagtaag cacaaaaatt caaaaataag ccataattat caattaagct 360  
 caatcatttg cctaagatca aaactgagtt aaagt 395

<210> 28590  
 <211> 432  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 28590

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actttcacta aatcaatggg agaactagct tcatatattc taanataata ttctacaacc 120  
aattctctct ttctttctct cccatgtatt ctaaataaat aacaaataaa aggaaatcag 180  
atactattac tgtacaagta cactgtaaat acacatgcag acacatttag agaatgcaac 240  
aaattntgta aatatagcaa gcaacaacta aacattatat tattatatca cacatctgtt 300  
aatacatatc ataattctgt cctgggtccaa aatagagaaa tataaccacg ttgctgtatt 360  
caacagaaag tttcttcaca tttgtcttca actctttttg tanaacaagc agaacctata 420  
tggggcatta tg 432

<210> 28591

<211> 485

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28591

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ttagagtcga cctgcggcat gctagcttgg ttgtagtcat acctcacaaa atatatatat 120  
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 180  
atatatatat atgtgtaggt ggagagatac cctggatatg cgtgtgtgtg gcaaaaaaaaa 240  
tatcacacaa tatatatatg tgtgtgtagg tggcaagata cctcggatat gcgtgtgtat 300  
agcacaataa ttcacacaa catatatatg cgtgtgtatg tggcaagata cctgtgacac 360  
acatgtgtat agcacaatac ctctcacaaa tatacgtgtg tgtatggaga aaaaatacct 420  
ctgaaaaaaaa gagagcgcgc gcgagaagag tatgaagaaa aaatataatg agagagaaac 480  
tttcg 485

<210> 28592

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 28592

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tcggcgggaa gtgatgggag aaatcgacat tccattcag ataggcccc acacttgcaa 120  
tgtggtgttt caagtaatgg atataaatcc cgcctatagc tgcctcttgg gaagaccttg 180  
gattcatgcc ctgggagtgg tcccttcaac gcttcaccag aaattgaagt tcgcagtggg 240  
tagactttta gtgatagtgt cgggtgaaga ggatatgtta gtgagttgcc cctcctccgc 300  
accgtacata gaagcggcgg aagaatcatt ggaaacggct ttccaatcct ttaagtggt 360  
gagctgcgcc tcggtggaac caagtccgtc gctactttct ctctccaacg tggccataat 420  
ggtggcgcggt gttatgctc 439

<210> 28593  
<211> 664  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28593

aaaaactagc ttggttgacg gattctngat tgntntcnta gcannnanca nannnanana 60  
atnctancn nngngtcgca nngangnaag acgntcganc cgagaatgtc gaagaacgtc 120  
ttttattctt tatttctcta gaacgaccga ccagagacgg gcatgggtgt gtggtctgat 180  
acgaaagaac catcactact ccgtcatact caattatcac acatcgagg aagcgtcatg 240  
angcgcagac agagtactct gcgtaatctc gccgtcaaatt attatatggc taatagtacg 300  
gtcacctacc atgtctactc catctaagta agtactacat cattgtagtt gcacgacaca 360  
atgactattc atgtacatgg tctactctc tctcattgtc ggtgagtatc atctatgtat 420  
gatagacact ataccgtaag ttacgcacgc cgtcaatcaa ttatcatatc tacttactaa 480  
gaccttgtga ggccacacga ctccctgnta atactttata ctgcacatga ggtacctatg 540  
cgcatactat gtgactttac cgaggcacgg tgatcgctcg ctgtcaaagc atggtatatc 600  
gcactcagac agttaacaag ccaccctaca cgatctgtta ctactactc gtactctcat 660  
accg 664

<210> 28594

<211> 359  
 <212> DNA  
 <213> Glycine max

<400> 28594

aaaaacatac ttgacgatgt tttctatggt catttctaca aaggactagt ctagctctga 60  
 cattgtagtg tcagacttat tgtcattaaa ttttgcata atggcctctt ccacagtcaa 120  
 gggctctacag ttataaactc tatatgcctt ggacaattca tagtactcaa gtaagattcc 180  
 aaaatcacat ttggaatcaa actttccaag gttatccttg gtgttaagat gatacactaa 240  
 cacccaagtt tcaattatgg tgaaaccatt ctcttcacag atttttcaaa gatcatttca 300  
 aactcgcccc atgatcactt ttgatgaaga gatcaaatgc cttttcattt gaatctttt 359

<210> 28595  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28595

gtgcaaacta tctccaaaan tttcagaatn gcananncnc nagnngaga ctgcgagat 60  
 agtgtantac ccgccagact naaaattagc ttgttacttt ctcaagcttt gatggtagcg 120  
 cgctggatat gaatgtacaa cttgacttct ccattcaata tgtacaacta cctgtgccgt 180  
 aagatggact gtcagtgact gaatctcacc gaggtgagct cttatccaag acacaaagct 240  
 aacttcgctg ggtgaggact catcaggccg tgaaaggatc gtgccgtggg agtcaggttt 300  
 acttgtatgg accttgtttg ctgtagatga atggttattc gagagacaat gcctcgtgag 360  
 acactacata agcgtgggtg cagatacatg acaacagata tataactttt taccgggggtg 420  
 aggaccgctt ttgcgaaaca accaactgcg gttcttgttt ctagagactt gacgactctg 480  
 tgctgcatgt atcgctagta atatgcttga tgccgaaacg 520

<210> 28596  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28596

agcttgattt gttgtcatat cctacaaaat atatatatgt atgtgtaggt agcaagatac 60  
 cttagacatg catgtatgta gcaaaaagat acctcacaaa atatatatat gtatgttttag 120  
 gtagcaagat accttagata tgcattgtatg taacanacag atacctcaca aaatatatat 180  
 atatattgtat gttttacgtag caagatacct tggatatgca tgtatatagc aaaaatacct 240  
 cacaaaaata tacacatggt taagtagcac aatac 275

<210> 28597  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28597

tcactctggn ctctagctga aatcttgagt ccattggagc atttaatgct tgcataaac 60  
 gcatgtccct tcttcacgta aagttcatgc tgataggttt atgtgtctag tactccagta 120  
 aagaggtaac ttctttcacc ataccatata tgcaataaca gagtgtgcct cttataaaga 180  
 atcaacgtct ttcaaactgt ggactgtagg aaatatgttt tttggggaag attcatcaat 240  
 ggacaaagag accacaaggt gagtgtttta caaaataatt tggggaaaaa gaatacgaaa 300  
 taggaattga tatatcatct acc 323

<210> 28598  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28598

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 gcatgagtaa cacttagctc aatgaacccc aattctggcc gcaaggaaat gagcttagcg 120  
 gcgacatctc gcgcttagct agtgaatacg aggcgcttag ccagtaaata cgaagcgctt 180  
 agcgagaagg ctattgctta gccatattca gatcgaattg aaatgggctt agctcaacct 240  
 tggccagctt agcggaccat atcaacttga gatacaaggg ttgagcgctt agcgctataa 300  
 actctccgct tagcgtagta caaaagatgc acttagca 338

<210> 28599

<211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28599

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ttgcgggctg cagccccggc tccgcttccc taactgtact ggaggcggtt gccgtggctt 120
tatectctat ggttttcttg agttttaaca tgacctccga gatggaagcc atttgatctt 180
ttaaggccga tagatcggcc ttcactctgtt cctgcacgcc ctcttcatta tccatttatc 240
tggatcgagt gttatatggg tgccttgggtg tattcttagc tatgatgaaa ttcctaaaga 300
aataaactac ggtgagtgtg ccacaaaac atgagtatgc taatggatga tctggacact 360
tggatccacc ccgagggttt tagataacgt aatgagtcca gaacttctca ttttataaaa 420
agaacacagc tgtcatctag ccaagattat acaaattgtg tacaagagaa cc 472
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<210> 28600  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28600

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cttcttccca ggttttcaga ctgttaccct taaatgagtg gagccacctt ttggcttctc 120
ctaccaagga aaatganaat agactaagtc taatggcttc atctggcaca cctgcaatct 180
ttatagtgtt acggatttca atgaatgttg ccaaattgtg ataggggtct gttagtcgct 240
ttatacgact aactntggta tagaaatcat tttccaaagt ttgtatagtt ccccaatnta 300
tggttatttt gtagtgaatt ttgtaaataa atcttgtttt atgggtaatg ttgactctag 360
aacatttcca ttgcatttaa tgatgaaatt tat 393
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<210> 28601  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28601

gaaagtttat catttcagtt tcttactatt taaaatggat catttntaag gtccaacgac 60  
 ttanaatgat cacctttcaa gtaaaaagaa tcacttgatt cacgcataag aaagaactac 120  
 ataggctctga tttcctcttt gatggagggt acgtaggagc aaaagccccg cttttgtcga 180  
 cctcaaaaaa taaaaagaaa taaagttaag gtaacacaat ttccacaatt ctaaaaaata 240  
 ggctgttgtc cttcaagaca aacgtaagag gtgctaatac cttcctcaac cgtaaataca 300  
 actcccgaaac ttagaatttt catttttgat cggtttcctt cggttttccc gaca 354

<210> 28602  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28602

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 tngaacaagg cagagtgggt actcagaaga aagctatcgg aaacgaagca atatcgtctc 120  
 taccctgcta aaccaatgcc aaccatcgga aacatgtttc caccttaatc tgccaagtgt 180  
 ttaaaagatt tgtgggatca acggagccca cttatgtcgc ctcaaata tcttggtgtaa 240  
 gtcgctatct acacttcaaa aaatgcaaga aatgggatca aatactcact g 291

<210> 28603  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 28603

agcttctctc ttatttactt tctctcaaac taagtgggag aataccaatt actaagtcct 60  
 tattaactag acaattgagg tgggtgcatgt ttacatgtgc atccctacga agcaatagtc 120  
 aaaaatcatc aatcttattt ttcaagcaac taagctcatg atatgatgca tgttcaatat 180  
 taaacctgta gatattacct atttttctac ctatgtgaac aacctcacta gtatttgctt 240  
 cacaaatgaa acaacaattc ttgttgaatg caatattgaa gccttt 286

<210> 28604  
 <211> 185  
 <212> DNA

<213> Glycine max

<400> 28604

cacataaaac taagctgagc tagtagaata atgatagcat gtgatttttag ccgatttcgt 60  
atcaaataaa cattaagaat gcaatatcta ggaagtgatc ctacgtcgtc tcccaacgag 120  
taatgggtcaa ccaaatgttc ataacagatt gtaataaaac aataacgaat tgcggggggg 180  
ggttg 185

<210> 28605

<211> 356

<212> DNA

<213> Glycine max

<400> 28605

tatcacatga cgatgtgtct attgatttaa cctctagata tgatcgtgat ctcgtaacctt 60  
ttccagttaa tggatgtcta atgttggctc ccagtcgatt cagaggaata tgctagttaa 120  
taactaatca atcaatacta ttatatgttg aaagaccgat cgccaatggg cttgccatgt 180  
agatgtcttg ataactctgac atttcgcaa tatttggtagc atttggaggc accgctcgaa 240  
tacttctaac cttttgttgt cgacctatct caacaacttg cagggctttt actttcttcc 300  
caatactgtt gtagtcaaca tttagagata gatccactct attgttcaca tacacg 356

<210> 28606

<211> 321

<212> DNA

<213> Glycine max

<400> 28606

agcttgtctc attgtttatg cgagacagag accaacaatgt tagccatcgt cagcaagtac 60  
caagaagaat taaatctagc cacggccac aagtacaaag tggatgaacga gtatgcccga 120  
gtgtatgcgg aaaaggaggc tagaggaagg gtgatcgact cgttacatca agaggaaaca 180  
atgtggatgg accgatttgc tcttactttg aacgggagta aagaacttcc ccaattgcta 240  
gccacggcta aagcaatggc gggacaccta ctccgcccc aagcttctcag ctcggtgctag 300  
ggactcttcc aattcagcac t 321

<210> 28607

<211> 331  
<212> DNA  
<213> Glycine max

<400> 28607

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aaagttgaaa catcacaatc ttaaaacgct caaactttga aatagtggta aacaacaatt 120  
attgatgtgg atttatatgt atgtgatttc agggtcattg gagctattct catagtaatg 180  
ggactttact cagttctgtg gggcaagcac aaggagaaca aagagaaaga ggcagagata 240  
actattgagg tattgaagtg ttgtttacag aatgggatga cattgggagac tatggtaaaa 300  
gatgtcgaaa caaacaatga cattgacatg c 331

<210> 28608  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28608

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gcagcatcaa gctttttttc agttttttata tgaatgacac tctgggagta ggacgttgta 120  
cgatccaact cgggccgcca atggatgaaa gcaagagaga tttctaaaat ctgccctgtg 180  
atgcataaac ttgcgtggga aatgggcacc agaataattgt gcttgtgcat aaaatgctta 240  
tgcacggttt ggttggggaa agggttgtac atatttgggt cttaaacatt tctatctcga 300  
tccatcagtc aaaatgtaac ctatggactt aggaccttca gtgaattttg aagtgattca 360  
ccgggaacga atggaatgat taaatgtttc gggggatgtg aataaaaaag cgtggaatgg 420  
ttgcgtttgg caaagatccg cctctccctg ttttgcgtgt tcgatacg 468

<210> 28609  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 28609

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gctgagggag ctggtggtgc tactgctgct gattctgcat cagcagtatc cttacgctcc 120



tctgattcctt ctttcactta ttcagttttc tcctcagatt tctcttgtgc tggatcctct 180  
 ttctctgtct cctttgccac cacctcctag gtctctactg gaacttcttt acgctcctct 240  
 gaggctactt gtgtaggtgc tttct 265

<210> 28610  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 28610

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 actctagaga tgatcgtgac ctgtcacctt cttctgatat tggatatctc atgttggttt 120  
 ccagtaagtt gagaggaatt cctagctttt taacgaatca gtcaatatta atatatcttg 180  
 aacgaccaat acctacatgg atatggcaac ttaaatatct ttctatcttg aatatttcca 240  
 aaaattttct taaaaacttg gaaagaagtg tctgaattta atgtcacacc ttttgatggt 300

<210> 28611  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28611

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 gcgaaatcac taggctacac tcttaccaca agtcgaacgc gtatgatata aattgattct 180  
 ttctgggacaa atacatttaa atcttgatag gatttctaca tcaataattg ccagccaact 240  
 aagtcattct tttttagaga ggccctctaa taagatgatg cattgtatca gctacactat 300  
 gtgagcatta caagcttgct tccaaccaat ggtgttgatg gcgcactaca agtaaacata 360  
 ttactatttg atactctaca tcattcataa gttacgcaat cctatgcaga cactgcaca 420  
 ttgatcaact ttgtaatata cgctttcaca cttgaatagg tagaagagaa atattaccta 480  
 ttcttacacc ccc 493

<210> 28612

<211> 247  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28612

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 ggagtacgtg agctcagttg gaggtgggca acatgggatg gtggggtttat gcgcgcattg 120  
 tggatgtgga aaacttggtg tgcaccatcg cccgaccgctc atctattacc acatgggatg 180  
 ggtaccccat aatcctacaa gcttgagatg aagaagagta gaagggtgaa acttcctgct 240  
 tttattg 247

<210> 28613  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28613

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 cttactgatt tcaagatgat gatgtatctg aatctgatca agttatgttt gttcaattgg 120  
 tgaccgctga ccatatacaa aataaggaaa agaaagtact atttttttta accttttata 180  
 cttgcatatg gttcctgcct gggttaagttt tttgccactt acaaagtatt tgattgaagc 240  
 caaacttatg catgacagct ttcttttagtg gttgcaagga gaggaagtat aaaaagttaa 300  
 tctttgggta aatgaatggt ttctctctaa tttatttatt acgtaagttt gatgtagttc 360  
 tctaagtttt tacatcgatt caaatttaat tcttttggtt taataaaatt aatcatgtta 420  
 gagaatctgt att 433

<210> 28614  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28614

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 gtccatcaat ttcttggcct atatcactgt cattctagca atntaattta actcatttct 120

atcctaatac cttgtctaatac tgtcagcatt attgcaccct gtaaagcctc acaacactca 180  
 ttgttgtttc ttacctttta cattggacac ttccattcca taacatggat aacgttggat 240  
 ttcatgttgc atctatgatg ctgtgtgcca cacctgaacc tatttggcaa tgttattatg 300  
 ctctattctc ttcgggtatt atatctgtgt cataattttg gaggtcacat tgagccttct 360  
 ttttctctca gagtcaaaaa atacagggt gctatatact gaattgacag tcaa 414

<210> 28615  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<400> 28615  
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 tctagacctg accaatctgc cacagggtatt catgaaaagc ttagcatgat ccaagactct 120  
 tccactggcc aactttctat acaaatagct ctcacacgtc atgcgttgaa catactcata 180  
 ccacac 186

<210> 28616  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28616

agcttgacga actttctata ttcatatagt atttgcttnc agaagtccca ttggcatctc 60  
 tgtgtttcaa atggtgtacg aaaaagtgtg ctacctacca atggagtaag aaattaaagc 120  
 tcattatgcc atgatgttcc tcaactatat ctatatatca tccagagaga aaaggaatgt 180  
 ataactacaa taacttacia aaatatgcca caacgcatat gatatatcca aactctacia 240  
 acgaagaacc catatgaacc atgacaacac aatcctctac agagaatgta tgcccanact 300  
 actattagtg ctctacaact caagattaaa gatgtttctt ggaaaataac aacaagacgg 360  
 agtgtgctct ttactatcca agacattaag ccatatggtg gtatat 406

<210> 28617  
 <211> 288  
 <212> DNA

<213> Glycine max

<400> 28617

gctccttcaa ctgcacaagg ctcttaatat atgaagagtt tttttgtgga atcttcactt 60  
tatgaagaca ctgacaaaga ctaatcttct acttttatga caaagtatga caagctgtgg 120  
gcaaataaat gttcttccca tcagaccttg gatgcaactg taatcgtatc ctcatTTgag 180  
ctaaatctta acgaggattc aagccatcct ttgtcttgcc tcgaatgtta aagagcatcc 240  
caatcacact gtcacatata tattttctgta catgcttaac atctatac 288

<210> 28618

<211> 355

<212> DNA

<213> Glycine max

<400> 28618

agctttgacc ttctgaattt ttatgactta ctcagccaga tgaggcaaca ctcttcagct 60  
tttgcggatg gactccagcg tttggctcat tactttgcca atggccttga gacaagggtg 120  
gctgctggga ccccatcata catgccccta gaaggaacaa cttccgctga tatgttgaaa 180  
gcttacaac tatatgttac atcctctcct ttgcagaggt tgacaaatta tttggcaacc 240  
cagacaattg ttagtcttgt ggaaaatgag ggcagcggtc atattattga ttttggcatt 300  
tgctatggtt atcagtggcc atgccttata aagaagctct cagaaaggca tgggtg 355

<210> 28619

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28619

tttactcata ttgtttatTT aattttattat gtttagtaaga attaaatgca agctactatg 60  
ggtgagttca cttgggtgag caattgagct gaaggatctt ctTanattaa tgataatggc 120  
tgctcatgat agtagaacaa caatttgact acccatanac actttgacag tcaaataaga 180  
aggtgaatcc atTTttatgt catatatgtg agttgtgtcg acttgagaat aacacattan 240  
acctogatnt gtctaagatn tgaggcggtg aggtgtgact tcaattaatc tatagtgggtg 300  
taaccttggt gggTcctaat tagacataaa cctgatttat aatatataTT tgtgtaaata 360

tatgtgagtt tggacgccta anaggtgttt tatgtccac atcaattatg cgagttgt 418

<210> 28620  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28620

cagcagagat caaagtaatg ggttgatgg tcaacccaat gaagagcctt ctgctcactt 60  
ggccacctat atatagatat gcgatactat taagacgtta tgtgagcctg cggatgcatg 120  
cangttgagt gtactctcat tgtctatatc tgtggaaccg aggagatgac gtcattgatt 180  
taatggatac agtttgatgt cacggtatga agcgatagaa aagttcttaa aaaagtactt 240  
cctcgactcg aagactgcta gatgaagagc taacatctct tcttccacc actttccaga 300  
ggaatcgctg agtgacgcac tctgaagatt cacagggtta ttgcttacga ctaccattca 360  
caggttatca gaaccaatac aactcaacat attc 394

<210> 28621  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28621

actcagctgc atgtgctgct gagcggcatg ctagacaatg gctttttgac cacattctag 60  
ccttcaatgc gcgctaacgn catgcacgat gaactgatta cacctcggct cttcactaaa 120  
cagcactggg cgctgagtgt gtggtacaat tcttatacat ctttcattct ctgatgagca 180  
tctcaaaatt tacttaataa aacgcaacat tgtgaaagac caacgttaca ttcttaatat 240  
aaaactcaaa aaaatcttaa ttctatctt ttaagtcaaa aaaatatcaa ag 292

<210> 28622  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 28622

cacccacacg aaggggggag gagagatact gcactcgatc acccccggca acgaatgtat 60

tatcaaagct gacaattgaa ttacaaacgg ttcaattaat ttcacaatgg ggcaatccga 120  
tacaatctat tggcaatcta ttaccaatgc tgaagaacac taagagtccc agccagagga 180  
gaaaagtgcc acctataact gaaatgcctg agcgtacaca taacaatgac ttggttatct 240  
attacctgcg acgtagttag gatctaaaag gcaatatctg gcaaattaat ggattttctct 300  
aattcataca gaacgaaatc tgatgtgggt tctagcccta acagaggcag cataacacct 360  
atcgttactt gatttaaatt gctcctcgac tcaactgtata cctcg 405

<210> 28623  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28623

agcttattca ctttgcactc tatagaagtg ttagattggt gaaatccagg agcctgagac 60  
aagtaaacag tctcattaag taagccattc agaaaaatat tattcaaatc taattgagca 120  
agatcccact gatttgaaat ggctaaagta aaaataagtc taatagtaat tggttttact 180  
actggagaaa aggtttatga aaaatcaaac ccttggactt gattcaatcc agtggcaact 240  
agaggagctt tatacttatn tattgaacca ttttcgattt tttcatccta aataccact 300  
ggccttccaa ttagatgaaa gaggtactag tttccaagta tgattcttca tcaatgcttc 360  
acaatctagt tgcatagatg acaaccagtt tggataagtc aggcattgtc acattctttg 420  
ttcacaacga gt 432

<210> 28624  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28624

tgcccagaga aggagtccac ggagganatg cttttcacat catatgactg gtttgcggtt 60  
nctaatgact cctctgcagc ctccacataa ggcatagagg atgggcagct caccaagatg 120  
tcttcttcgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttggtgg 180  
agtgtagagg gaacaactcc cattgagtgg atccacggac gcccacacag acagtctgag 240

gggggggttaa tatccattat ctggaagggtg acttgacaag tgtgagggcc tatttgact 300  
 gtgagatcga tctctcccct aacctcccgg cgggtgccat cgaatgcatg aaccaccatt 360  
 taactcggct ttaag 375

<210> 28625  
 <211> 141  
 <212> DNA  
 <213> Glycine max

<400> 28625

agctttatga ttatgaatca agtcgattca cgtagtggtg agcatgacaa agatgatgac 60  
 ataccgccct cagagtgatt tctagatcga gtcacaaagt tcgaaatcta gtgtaatttc 120  
 aagtttcatg atacgagatc a 141

<210> 28626  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28626

tgtgtgatgt tgcgcgact gacggagacc attatgagac tgttgtggtt ngacccacgc 60  
 ggggtgttgaa gagacggcat gggcatctcc ttccttccctt attgcccctg ttgccccgat 120  
 tctttaggca tgcggggtctg tggaggaaac gtaatcatac tttccccttt tcaatccaac 180  
 ctcgattctt tccccggcaa acaccatata cgcaaagctg gacggcatgt aaccactag 240  
 cttctcatag taaaacactg gcagagtgtc taccatcatg gagatcatct ctctctcaac 300  
 catggg 306

<210> 28627  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 28627

agcttataat attattaatc gtctccatca tcaccaaata agcatgtgat ttatgacgca 60  
 taaacacaga ataaccaag gctattgtgc aatcattcaa tggggcaata cacaccagat 120

gattatgacg atggatgtgc ttagataatc acacaagtta acttatcact ctcagattga 180  
tctttcaata ctatcatgac atgtacagaa gaa 213

<210> 28628  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 28628

taatgatgca tctaatatat gcaacagaga atttgtagca tctttacgtc gatgctcact 60  
cgaagatgta actgtgtgtc tttttcttgt caagatctta tgtagtcgcc atcaacatca 120  
tcagtggcat ctacatagac gcctttggac agaaagtgc cctccatctc tctctcatca 180  
ttagaggatg gtggctctgg atacaagctc gacttaactc tcctgttata aa 232

<210> 28629  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28629

agtcttatca actttatatg tnaaaaaaca aaacagaaat tagatagtta tgaaggccaa 60  
ggccacgata aaccatcatt taagtgggcc attatggatc ataattctca atccttggat 120  
taatctacag accacgatct tactacagac tatccattta ataaccacac caagtgttgg 180  
agcatataac tctttagtca cctgtctcaa gttaaacct ctcactcagt tcttcaattt 240  
ctttactata cctatgtaca ttttctaact tgataacaaa actacagatt tt 292

<210> 28630  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28630

tatgatactc agctttatna aggttcgccc taatttctct actttttcct cacctctgaa 60  
tgagctggng aagaagaatg tggcatttac ttgtggtaaa agacaagagc aagcctttgc 120  
tttgctcaaa gaagagttca ctaatgcacc tgttctagct cttcctgact tttctaaaac 180



ttttgagcta aaatgtgatg ctcttggagt gtgagctgga gctgtattgt tacaaggtgg 240  
gcacctact gcttattata gtgataaact tcatggtgcc acctcaact acaccaccta 300  
tga 303

<210> 28631  
<211> 528  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28631

tgagtncgga tgaaccttgt gactctcgga agacattagt agtttcgcgc gaattccgct 60  
aggacccggg atcctctcga gccgagcggc ttgctgcatt ctncctcggt tcagtcgagc 120  
atcttccgag ggtaacgtg atgagggcag accaggaggt ccatgacgat atcatatgaa 180  
tgtattcttt gctgaggcat atgatgagca atcgcttata caccaatgca ttatagccat 240  
atcgaaacta gtcttgaatg ctgattcatc ttagaccaag gcttgctctc taactcacag 300  
ctgttaggat catgcgcgct ctggtaatcg atgaccggga gaggtgatcg attaccacat 360  
gacatggctg acatatatat gacgcacact gctttgagtt cgatgatcaa cgtgcgatct 420  
atcatcctat gtctgtaatc gatgatcagc aatcgaaact tggacatgca tatcagtagt 480  
cataaccctt gctattataa ctgtgttatc gattacacta acatagcn 528

<210> 28632  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28632

ntgactntga gtcacaaaga gattataaat atgtgaccat ggtatgagtt tcanagtaat 60  
tacctctttc aatctctttc aatctatctt tcaactttnt ctacaaaatt tctgattcat 120  
ttctcttcat ctttctaaaa gtttttgtaa aacactttct cttccaagag aagttctttg 180  
ataaaaaact tgtgctatct atctttttca ttctcttctc cctttgocan aaagaattca 240  
acaaggacta atcgctgaa ttgtntttga gtctctcttc ttctttttcc aaaagaacaa 300  
aggactaacc gcctgaattc ttttgtgtct ccttctctct tttcaagaga aatcaaaagg 360

acacagtctg agaattcttt agattcttcc ctttccctt

399

<210> 28633  
<211> 267  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28633

ttgttgctat cttgtgcatt ggcattgangt atngaagaaa attgaataag tgggtgatga 60  
acaaggactt tcaagtgtaa ctgttaaaat aattaattgt ggtgaacata atgaggggtga 120  
gaattcctca gccctttatg gagaatacta agttctaccc ttaatatgaa atatgattat 180  
atgaataatt acgagtgtaa gcagggtgcgg gtcacctgcg aacctgaatt gatccacacc 240  
aacccaaata gtctgggttg cgtaatt 267

<210> 28634  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28634

tgcccagaga aagaatccat ggaggaaatg cttaccacct cgaatgactg ganagcagtt 60  
tctaataact cctctacggc ctccacataa ggcatagagg atgggcagct caccaagatg 120  
tcttcctcgc ctgatacgat gaccagatgc ccttcacta cgaatttcaa cttttgggtg 180  
agtgtagagg gaacaactcc caccgagtgg atccacggac gcgccaacag acagttgtaa 240  
gggggttaat atccattatt tggaaagtga cttgacaggt gtgaggacct atctgtactg 300  
tgaggtcaat ctttccccta acctctcggc 330

<210> 28635  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28635

agctntgatg gtgtcgagat tatatcacat gtttgtcatc atcaaaaaga gggagaatgt 60  
gaatgtatgt atacatgatt ntgatgatgt caaagaagaa tctaataagg ctgcttcaaa 120

tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaaag ccttgtttca 180  
 agattcacta aagaccaagt cttgccttan aacaaagtgc tttcaagaca tgcaaggctc 240  
 tgghaatcga ttaccaggag atgtaatcga ttaccagaag acagggttga gaaatagctg 300  
 ttgaaaaatg ttttgaattt gaattttcaa catgtaatcg attatcatat gtctgtaatc 360  
 gattaccagc aacgaaactt tggaaattca nattcaaaag tcataaccct tcanattata 420  
 actgtgtaat cgattacaca aac 443

<210> 28636  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28636

gctcggtgag tcatccaaat cattntcttt catacagttt atgatgcatc cagcaataag 60  
 ttcatttcca aattcacact tctatttttaa ccaaattctt gatgctccaa atgttgtgag 120  
 aaagaactac agaaaacaat atcttccagg gccaatgttt gggccctatt cctttataaa 180  
 tgtagttggt ggcatgaag agtttgatga tgctggacga agccggacaa atatgggtga 240  
 agtagcaatt gtgatgaaaa taattaaaaa ttgttttaaa gggttgtgtg tgtatgcgaa 300  
 atctcagtag tgatctatca ttttagtgta ttttcattct ccttgagaaa gactatactt 360  
 gtcaaaagtg aaaattttca ttatttccac tact 394

<210> 28637  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28637

agcttgnagg attatggggt actatcacat gtggtactag gtggcagtcg ggcgatgggtg 60  
 cacaacaagt tntccacatc cacaagcgc gcataaaccc accatccoct gttgccccacc 120  
 tccaactgag ctcacgtact cccacgtagc ccataacctc gtttctctca acaccgggtc 180  
 cccatcaatc ctcccaagct tccccaacat caaagtaa at caacattcaa acagcacaaa 240  
 ttaccacagc caagataaca gggcaaaggc agaaaactct gcccaaaaca ccaacaaaaa 300

tcacagctnt tctcacttaa agaccccagt aacaattcct tcgatctcaa tcggtaaccg 360  
 ttggatcgac tccaaaaatt tactggaagt ctatagtaca taagcctaca ttattgaccg 420  
 ttgggatcta ctagtaaaca 440

<210> 28638  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28638

cactctacaa tacacacgct tctcaaagat gtacttaacc aggtccatct tggatatcaa 60  
 ccatgtggta tggttcagca tgtattgtct tagacggtgg gacgcccaga ctaaagcaca 120  
 acacgttctt tcgagcaggg agtagttcat ttcataggcc gtgaactttt tactcaagta 180  
 gtagacagcg cgttctctct tcccggactc gtcattgtgc cccaacatac atccaatcga 240  
 ctcatccaaa atcatcatat acaagatgag aggccttcct ggtaccaacg acataagcac 300  
 gagaggggtc atgagacact gtttgatcct tccanacgcc tcttgacaat cctcattcca 360  
 acggacggga tgggttttgc gtaagagttg gaataacggc tcacaatta 409

<210> 28639  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28639

agcttagcca ctcaattggc aagtgtatca gctgcttcct gtgtggatgc ctacgatac 60  
 acacgaacaa catcttcagt gccagatggc cgcacaaagc atcgaccttg ggggtcctta 120  
 gctgtaaatg cagaagagga aagagtatca agctgcaata ttagtaaact gaaattctgc 180  
 actttaatct ttcacactaa aaggctttca tggatggatg aaactgacaa atatctcgca 240  
 gtcagtgaag ttttgccaag ccacttggac ttgataacag taatagtata atccataaa 300  
 caagacacca acttttcaga gatataacat tcaattntgg tattatttat gctccttgc 360  
 ctccctcact ctgcccattc ttgggtggtc acanataana gcaagcaagc aatgatataa 420  
 ccaaaaaaca atgtt 435

<210> 28640  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28640

acgtgcgcan tagaaaccct tgctatatac gttacactat agcataactca agctgtatag 60  
 ataccctcat agtcaagagg aagaaatnga gatattggtg ccaggaatgt tagatgaagg 120  
 catcatacag cctagtaaga gtctcttttc ttctccatt atattggtaa aaaagaaaga 180  
 tgggtcatgg aggggtgtgta ttgattatag ggctcttaat gcaattacta tcaaggacaa 240  
 cttccctatt cctactgtgg atgagttgat tgatgagctt tttggagcct tcttcttttc 300  
 taaattggat ctaaggctctg gttatcnacc aaagtttgta aatgcagatg acagacataa 360  
 gacaatattt aggactcatc atggccacta tgagtgggtg gtcatgccat ttggcctaac 420  
 caatgcttct gctacttttc agagccctat gaatgacatt gttggtggaa tactaagaaa 480  
 atttgacctg gtttctttgt gatattctgt gtatagcgct natggaaaag acatn 535

<210> 28641  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28641

agctttgagc atanatcttc tacaataacc ttttactcg gaggtcggat tgagtcccg 60  
 aatatatcca cacgctcgaa attgaatggt gatgctctga gctaattcaa acgacaataa 120  
 cctttttact cagatgtcag atacagtcct gtaatatatt gagacgctcg atatggaata 180  
 ccgaagctct gatogaattc aaacgacaat cactttatac tcggatgttc gattgagtcc 240  
 cgtcatatat cgaaacgcaa gaaattgatt g 271

<210> 28642  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28642

actcagctta acattcaata tcgagcggtt cgatatatta cgggactgaa ttatacatcc 60  
tagtnaaata gtactgtagt gtgaagttgc tcagagctta ccattcaata tcgagcggtt 120  
cgatatatca cgggactaaa tcatacatca gagtaaaaag ttaatgtcct tcgaattatc 180  
tc 182

<210> 28643

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28643

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caaggccggc ttagaagata atagcgtgcc ctccagactg ccacctaggg aaactggcta 120  
cagcatgaac gctgccgcac atacgcaacg agcctaattgc acagcttgga aagaccatgc 180  
gctgtataat tggacctagg cagtaaaagt gttactgggt gtaaagcgtt gtgactctng 240  
ctacggattg atagacctac gagatttgat catccgatac aggaattgcc cagtcattgt 300  
cgtacgcgag aaattacctc tgcgtacagc ggattcgtga caagtccctc ggaggtgcca 360  
aacctgagac cgctgtgcg tgtgaggaga attgactcta aagctatcaa ggcacgatga 420  
tctgaacttc ccctgaccga gactgatggt caccgagagg ccggaaaagc cg 472

<210> 28644

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28644

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tcgacctgcg gcatgcaagc tttgggtttc tgatcacatg taggaccacg aggccgagga 120  
gattaaagag ccatcatctt tctcgatact cgcaaatgat acagaattta caattctttt 180  
ggttaacatg attatctttt ctcaataagt gacgcacatc ctgtaaccaa tttattagct 240  
acggcagggt ccacattgta cacattagtt tcggaattat ataaatattc attaaaaaac 300

ctattcgaca ttcgacatgt ctgtctacga atcacagtca taatattatt tcttaacaca 360  
 tcgtgaaaac gctactgaac tctcttatag cactcngttt aattcattcg aaccatattg 420  
 tttaggggtga tcgtactcca ctattaatcc cggttatatt tactcaactt gatattgact 480  
 gccatctatc tttactatca atacn 505

<210> 28645  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28645

agacgcttgc cccattgaaa accttgagnn gcttagtaca ntctnacact ctagctaagn 60  
 aacctacgcc aaagaggaag aaagagtttt tagatattca agcagtcacg tgcataagga 120  
 gtgattgatc aatgggtata caggacgcga acatttagtt gcgtgagtca tgtgtgttac 180  
 ctctgaagca taattctcta tatatatatt ctctcgtgca cactctatgt acaaagaact 240  
 ntgccctata ccactcggat catacgaagg aaactaatgt tgaactagaa tggatgccct 300  
 atttgatcgt gcctgtgaat ccttaaaactg cgagaaacat cttgccggat ctacccgaac 360  
 tcattactca catggctacg atctgcctcc ctggacgtgc gtcaaccagt tgcgcttgct 420  
 gtaatctgga tcatgtgaca ctattatagt tacttggtga acacataatc accatatgat 480  
 aatcctcaca ccttcctgta gtgcatgact tcacctcctg aggctgtata cactcccg 538

<210> 28646  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28646

agcttggact gttctangga gaaaaaaaaa caaatgacca aagtgaacca agagccattt 60  
 ctagggcaaa attaggtggt gaagagtcaa attttgattc ggtggaattt taggtgtaaa 120  
 tccagtttga gaaagtttag attgatgtta tatacttgtg tgaggtgaga gtttgctcca 180  
 aatttacctc attctcaatt tcacttttca aaccttgaaa atccattaaa atgagggggt 240  
 ttggacacct agatcttgtg ttgctgtggg ttgaagcttg actttgggtt agacatgatt 300

gatacatgat atgggacttg tacgatgtga tttgggcaag attggatgat gggaagtg 358

<210> 28647  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28647

ntgcgaatnt ggtcttcgtc ggggaaagga tctaaacggg tcttataaga ggcaaatntg 60  
atcatctttc tttgatgaat gagaaaactg ggacaaatga agaggatgat aatgaggaag 120  
gaactcatgt tgtggctgcc attcctacat ggccaaactt cccaccagcc caacaatgtc 180  
atcgctcagc caatatcggc ccttctcatt acccatcacc caatcatcca caatagccat 240  
ccccanatca gcaacaaggc atgcctgctt accacacgcc caatgcccaa acaccaccta 300  
ta 302

<210> 28648  
<211> 353  
<212> DNA  
<213> Glycine max  
<400> 28648

agcttctagc tcttatggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60  
gtttcccttt ccttgttttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120  
catatcctta aggaattctg gagctttgga attgttttgg gaataagtgt ggggggggttt 180  
ttgtttcatt ggacgactcg ttttgttggc tatgcttcat gatgtattta gcgccatact 240  
tgatgtacat tgtatattgg ttaaatgttg gacatgctga atgaaatgtt gtttctcaaa 300  
ggccaaagag taaaataaaa aaaaataata taaaattccc ataaaaaata ttc 353

<210> 28649  
<211> 271  
<212> DNA  
<213> Glycine max  
<400> 28649

ctagccttag gttgttcaat atgttgetca tgttgctccc cctatctcta acaatatgcc 60  
ttagtgtggt ggaaccaagt gaggagtgat gttaagagga tgagaaggcc tttgattcat 120



actacgcaag acatgaagag agttttgaga gagagatttg tgtcgtccta ttataagaga 180  
gaccttcaca acaagctcca aagactaatt caaggatata ggagtgtgga tgagtatttc 240  
aaagaaatgg agatttcctt gattatgact c 271

<210> 28650  
<211> 169  
<212> DNA  
<213> Glycine max

<400> 28650

acctgaacat attgacacta ttcgggatct gttaatcatt ttttgtgaga atgtacctcc 60  
ttttactgca cgcacaaatg gaattgtcaa acattctgaa ctgatccaaa atctatgtct 120  
tgtagacgcc aacacgttgg tgttcttttg ctgtggtctt gctattaca 169

<210> 28651  
<211> 243  
<212> DNA  
<213> Glycine max

<400> 28651

agcaatctat catatacgac tctgacttgt tctacttgac tattcttgta aggaatcagt 60  
aattacaggt ttttattatt attgaaaatt actatgttat ggggtgtattg aaaatcattg 120  
tgcacatgag ttaataatgc tctctaataa atatattttt attcttaatt cattaactta 180  
acatgtgtaa gttttgcatt ttaatatcat ggtcggagag acctaaactt tcttttttac 240  
att 243

<210> 28652  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 28652

agcttcttat tcaaggetca tcttggtggc gaagctcctt cttccatgac ttattcccta 60  
gtggatggcg ccgcctctta ccttttctcc tttgtcttcc gctgcatcta catgggtggaa 120  
aatcaccact aaaggacctc attaaagctc aaagatccag cctccataga atctccacaa 180  
gcaagcttcc atcactgtat atcagctgcc aaaagttggt cgacttgtga acaaggtgaa 240

tgtttatacg ggagtattgt tagataatcc attggaataa ctaattaggt agttatt 297

<210> 28653  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28653

atggctagac atgatatatg tcanggcttg gtttggttca aggataaaag ggatgccccca 60  
cattattggc atgacacaaa tgcaaaaaat gatgatttgg aaattttatg caaaactggg 120  
catgcatgca cctatgcaga cgttcaagtg tcaaattntt atggtcatgt gatgctatgg 180  
ctcaggattc atttcctcta ttttaaatca acccaatgtt tccaaaatat gttcttttat 240  
caatatgtgc attcctccaa gtccatttcg agcgttcggg gaaattntca cagcattcac 300  
ccttcatgtg tagacacgtt ttttcttcta aaatcgatta tgatcaatga aattttttc 359

<210> 28654  
<211> 313  
<212> DNA  
<213> Glycine max  
  
<400> 28654

tatcttgagg tatagattgt ctctgtaaga gcaaaaagtg gcaatgaaaa atatttgtaa 60  
ctcttgataa gtccgtggat acttagcatg ttgccaagaa ctagacgtaa tctgagtgt 120  
aagactaacc aatataactt cctctattta ttctatactt cttctttttt gtgtcgaatg 180  
aaaaacggct cagattagtt gttagatctt atatttgatg aagcctttct taaatatctc 240  
tatttgtttt tagtaaactc acgtcagatg ataatgtgtt tcaatcaaga acaattttaa 300  
attcgaaaac ata 313

<210> 28655  
<211> 258  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28655

tgaggatgtn tgtcacacag ttgttatatc actagataat cattagactc acaacgaata 60

aagtgcata gcgctgtcag tttatatattg acgaaagaaa cttgagcgaa ttgagtaaac 120  
 cttagctctg ccaagtttagc aagtttcatt gtattcaagc ttattgtgta cacattcttt 180  
 gagttattag aatacatTTTT ttgtcaaaca tctatggttt gtgaaagcca cgagtggggt 240  
 cgtgacaaaa gatacttg 258

<210> 28656  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28656

agcttggaga tttctcanac gaagaccaag accttgttat tcggctccac aacctccttg 60  
 gaagtagggt ctttcttaat tagaccaatt cttatatcaa caaatactat atacactata 120  
 ttaaatacag tactccatca gtgtttttaa aggttgattg caatagcgca tcaaaagggt 180  
 acggatgatt cattaaagtt catttggtga aggtgaaaat ctggtccatg aaaactccag 240  
 tagtgatcta atcgacttct caagcatgta tgaacggatt gttgcagaag atgatttttg 300  
 gtgtaactnt ntcttttgcT aatactgtgt ttgatctatg cactccttaa ttaaccgagt 360  
 cttttcaggg tttntTTTT gctgtgatn gggttgtctg taaaacctgt atcctctgca 420  
 naaccttttg atttttgaca at 442

<210> 28657  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28657

tttaagcata agttagtttt aacttataga agaattttat tntattatac catcttattt 60  
 tcttctcta taagtactta tgaagaagtt tatccatagt ccgattgaaa tatcagaatc 120  
 tgcaaattta taccacaaac ctgatgcctg cccggattcc actagtccaa tcttgtttgt 180  
 agcacataag tcttcctttg aggtcattct tgatcccacg taagggaaca aatgtttctt 240  
 ccatgaaggt attagaatat caagggatga atactggtct aagttttggt ttatagaana 300  
 tggagcagaa gatatgagtg gaagatgggt aatcacttca agggagtct 349

<210> 28658  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28658

agcttgaagg gtcattccaca ttctctagtc ctagtgtctc ttctaacaaa ttctttcttc 60  
 ctacacctat actcgccact cctttcacaa ccaattaaca caaacgaagt ccttcctcta 120  
 ctaccagtgt ttgtgtcaaa ccttataatc accgccacaa atcggttttc ataagcaatg 180  
 gattgatccc accgcanaac atcctctcgg ctatcaaaca tgtacaaagc aatccacatt 240  
 atttcagttg tctacaacat attcattnta ttaaactact cacaatcatc aacattatta 300  
 cctgagaagt attgaacgct tccgaacaat cgacatgtgg ttcatcaca ccacattctt 360  
 ctttattntc ataatccata ttactactt cagacattat acttgtatac atccactgat 420  
 cttcgtctac gtccatctta ac 442

<210> 28659  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 28659

agagctcgct gttgctgccc cacaacaccc ctacagaactt gtttctgctc cattcttctt 60  
 tttggggcct ctgtgtttcc cattccaatg cttcgacggt ggccacattg acgtctctca 120  
 gttcttgaca ttcttttcag accttgataa ctgtcatctt caacttttcc ttgactgctt 180  
 gctgtcatac cctaatttcg tccggggatt attacttggtt gacatgcaac ctttggttag 240  
 ccgctttgag atacttgggcgc tcccttggtt cacaataaat gaagtcccga gatgtgtcag 300  
 aaatcaaaag gaagcaggct tgccgcatcc gtgaaattcc gtaatgtggc ggaaatcgaa 360  
 aagaggtgtc tttgcgcaat tcgagagttt ccgtaacttc ttcgaaagct agaaaagagt 420  
 agatacataa t 431

<210> 28660  
 <211> 421  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28660

agcttcgctg atttagtttt caccgacgaa aggatcaaag caagtatgaa aagaggcaaa 60  
tctgatcatc atgctttgat aaatgcaaaa aaaactaggg caaatgaaga gggtgagaat 120  
gagggagaag cccatgctgt gactgccatt cctatacagc caagtttccc accaacccaa 180  
caatgtcatt actcagccaa taataaacct tctccttacc caccgcccag ttatccacaa 240  
aggcaatccc taaatcaacc acaaagtttg tctaccgcac ttccaatgac gaacaccacc 300  
tttagcacia accaagaaca ccaaccaaga aatgaattnt gcagctagaa agcctgtaga 360  
attcacccca attccagtgt cctatgctga cttgctccca tatctatttg ataattcaat 420  
g 421

<210> 28661

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28661

ngaacgatct ttactccac atgcataaga ttcnccagc taagttatth gcctgcggca 60  
actcccatga nacatcanga tctcccaca ttgtctgaca ccacgnaatt tctattgtgt 120  
tctcttgat ttctataaa catatcatat ctgcattntc ttttttaact agtcgcctta 180  
ttgtgacca cttgaccccc ctccctaate ctctcacgtt gtaagtgata atattcatga 240  
tgtactgggt ntgttcccc ctttctctgc taccttgctg tctctttcct ccatgttcat 300  
gaatntctcc accatthtcc tctaattntc tattccagat acccncagct agtttgctaa 360  
ctcccataat tctt 374

<210> 28662

<211> 169

<212> DNA

<213> Glycine max

<400> 28662

catgctagct acatgtcttc gtgctgactg ctactcttgg ctgacagata atgaatgatg 60

acgatccata ttaagcatga cattctatta atatacgaaa tttggaatct gaaagaacta 120  
tgtttcgtat aaacaatata ttaccgactc tcgcataata tataatgac 169

<210> 28663  
<211> 280  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28663

tattgctaaa tgctaataca tcagcaattc tcacagaaat catcttggtc ctgacaatgt 60  
tagaaaccat canaccatgg ccatatataa ctgtgcaagc atgatagaaa acaaattata 120  
aaactattag aaatgaatga ggaagtntga caaaataata agacaaatac cttttcattg 180  
tatatacgaa agccttcttt gactactgct ntagtatcat ctgaccgagt aatgagctnt 240  
gacatacagt gtgcaggaag aagaagtgga gccatgacca 280

<210> 28664  
<211> 307  
<212> DNA  
<213> Glycine max  
<400> 28664

ttattatctt taatgaattg caatcaaagg aactcaatac gaatgtgggc ctagtcacat 60  
gataaaccac cctatttagag cgaagatcgt atcatctctt ctaccgacga catattgcaa 120  
acacaatatt tagaagactt ccaactgagtc taatagctag ctcttaatga tcatttctaa 180  
atgggtctct tcaaatagata catttcaaac tcaatgatag catgctggca tctatggaga 240  
tgagcactta ttaagatcac tacctcatcg acgtcgtaa gatctgtgat gaatgtgtgc 300  
ctaatga 307

<210> 28665  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28665

agcttcaata gacatctata gagagncaaa attgggtaac tatgctggat gcttgggaagt 60

aggaacacat cataatgttt acaacctatt cccttcttgg cttgatctca tacagatgtg 120  
 aacatagacc aatttgtaac actttgtgat tatagaaaca aacaataaga ttgcaacaat 180  
 ataaaattat attctatgaa caagaataaa ttcaagtoga agacatgaga attatagcat 240  
 ggagaactat ctaatagcaa ctaaccaacc aatctcttga agcttcatac attagtagcc 300  
 ttcccaactc agccattgca tgtcctacaa cattagaaac tagaagagtc agttcta 357

<210> 28666  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28666

agcttttagct ttttaagatcc cgtcacacga cctcgagtcc tttggataac aatcagacaa 60  
 tgcataacca ccctccatac acatgaacac cacaccccaa acaccatana cccttccgaa 120  
 ctgcagaaat tagatggaat aagacctact ccagactcaa tatcctgcta tactacacat 180  
 catacgatca tcacaccaac atgccaaaga atacgtacta ccgcctctat tatttatcca 240  
 ttgccaaagac attatcttca ccaaataag atctcctcta cctcttgatc ctttctgtg 300  
 aaaat 305

<210> 28667  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28667

ttcttgtgtc gagcagatag ccctaanaga gataatacac ntgtattatg aaactaaagt 60  
 taggcaaagt aaaatatgaa atagtgggta ttatggtacg tttcttggca ttttgctata 120  
 ttaaataatta acaaaaattaa gttatgtttt aaataataat tcgggttgaat gataaagtaa 180  
 agcttatttt tggaacata taaatatcat atatttcgaa catacatttg agtaagacat 240  
 aaagtaaaac attaagcagc aaatgttgn tttttttaca caaaacaatt caaagagtta 300  
 agtaagacac cactagtttt acatgcgtaa aaacaattat gtaataggac tttatgtttg 360  
 attctattgt gtgttaaaat ttcttggatt atacgataaa a 401

<210> 28668  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 28668

agcttgtata ttttccaat ttatggttat tttgtagtga ttattgtaaa taaatcttgt 60  
 tttatggtta atgttgtctc tagaacattt ccattggatt taatgatgaa atctgtgcat 120  
 ttttaggtga aaaagagact aatttctgaa ttgcaaaatg tagcagttac gctaagctca 180  
 ttagttgggc taagcacata ttcaccgtca agcgcagctt cagcgcgctt attgcaaagg 240  
 agaatctggc agagcatcaa catcaaattt gcatgctaag cgtgagatca gtgtgctaag 300  
 cgcagtaggt gccttc 316

<210> 28669  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 28669

tcgtccacag atccctcatg taagactaag cttatactaa acagtattat tgtaacagca 60  
 taattaaaac caaaacttaa cccatagatc cctcatgtaa agctaagtgt taatcctgct 120  
 tcaatcaagt tctaaggcaa cagtacattt tccaatgcta aagtcaccta actgtgcaca 180  
 taaatgggtg atcagaccac aagcatacaa acattaagca ttaaaggaag cattgaacac 240  
 agaaaacata atcaattaga tattaagtat ttacatcagt tgttcattat aaatcccca 300  
 ctaggggtgtt taaccagcca ttacaaagaa actctcacia tgaatgagac taaaaataga 360  
 gaatgatagg tccttacac 379

<210> 28670  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 28670

agcttataat gtttaactat ttagtatgac atattaaatg tgatcttata accaccacag 60  
 cataacaaaa tatacagatc aaaatttaca agacattttt tactgatgta agaggtaaga 120



atgtaccatc tgactctgaa atgttattta gaaacctata gataaaaactt attctttgca 180  
 taagtaatgc cattacacaa aaaaaaaaact tggactaggc aacatctagt cacggaataa 240  
 gttcaactat caaaataatt ccgaattctc taattgcctg tgcttttagca caagaatgtc 300  
 ttcacattat ttctgccaaa aaaac 325

<210> 28671  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 28671

tctacctata tggaaaatat atagtcattg ttggacacat atattctata ataatatgag 60  
 tatatatattt taaatgtaaa agaatgggtt cgtgaattga aaactgattc ctaaagtata 120  
 cttaagtaaa tatatatcac atacaacatt acaatctaca atgagttggt gcagccgcat 180  
 cactaaataa atttataatt tatactacga gtcaggatct tatctatata ttaaaaacat 240  
 gtatgactgt acactacata tattgaaaat gcacactaca tggaattcat agcacaattt 300  
 aattcaatat ttataccaca atacaccaca attcaaccag aaattactac attataattt 360  
 c 361

<210> 28672  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28672

agttttataat tattagtctt ataatngcat aattgtctaa ggtaaaagtt gtaagttact 60  
 aagtcaacgt tgtgagttat gaagtcttgt agttttccat taacatttag tatcttggaa 120  
 caaggtatta agtatattatg tgattagtca aatgatcact ctattctagt ataaataggg 180  
 gatcactactc ttatattcga tatggtaaag aaataagact ctttttttca acatatgcat 240  
 atatttccgg tcaactgctaa cttgctaaca aaatgcttgg ctacttttat gatacctggt 300  
 attactatta tgggaacatt atacttttgc tcanatatgt aaatttatgt cagtgattat 360  
 gatacactat tttcacttta caactgggtg gatctgtata tcaaacaatc tctcttccat 420  
 tcttatat 428

<210> 28673  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 28673

taagttctag aagagcattc atccttagat ctttcctttt ctcttttatt ccagcttcaa 60  
 ttacttgcct ttacattta aggcacttag cttcaaataa caaccacat aacctttatt 120  
 cttgaacttc attctttttt cctttttttt tatttttagca gctgttattt gctgcttctt 180  
 tacaattttc tatgtgggtg taatttgtct taccactctt attgtcaccc aataatcttc 240  
 cccacatttg ggacaaat 258

<210> 28674  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 28674

atcatttgat gtgatgtgac ttttcagaat attgttcaaa aattctctca ccagtaatcg 60  
 attaccactt cttggtaatc gattacacaa ttatgttttg aagggtcata acttttcaaa 120  
 gataactttt gaaatctcct cactgggtgg tategatcat tgcacagaa attcagattt 180  
 tcaaatccat ctagaacaaa tttttatgca atgtgtctat agtaatccat tgctatactt 240  
 aggtattgag taccactgt 259

<210> 28675  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 28675

cgtagaagaa gcttgctgag gaatgttttag atagtttgag atgtatgaag caatgaattg 60  
 catagaatga atcaacttac aaagttagtc atattagtga cgttatatat gctagttaac 120  
 aagagtcgac taagttataa cgtaactcat taactcttgt gacatagaga ttagccaact 180  
 aaaataactc taagttcata ataatctatg ctaagaacac ctcatttggg ttacgatat 240  
 actcatggct ac 252

<210> 28676  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28676

ttgctttact ttatttagaa tcaaaganaa gggagcgagc agatgggtaa agagttgata 60  
 ttaatcgctc taaagatcct taaagagaat gggcattatg ttaactcggg caaggcaata 120  
 ctgggcgctg tccctgaggt tagagctcgt gatgaataac aatatatggg ggagcttaat 180  
 ataataaggc cttcatcgtc ctattcacgg tggcatctat tatgtcaagc acaatcgta 240  
 tatecttgca 250

<210> 28677  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28677

aggtgactcc catcttgtgc aagcttaact ctttcagaaa ttttgaagag gcgaggaatc 60  
 cagtgggtccc agggtagcaa ttgcttctgc aaagcgagat gaagcagcgg cgataatatg 120  
 gatgaatagc ataccgtatg acgagtgacg ggaanaccac acaagcagct taccaaataa 180  
 gatgagcgtg cttaacggcg cgattcgatc gcaattgaac gcactatatc cgtatgcttt 240  
 ggaaaccagg atgatgctac cgtctgcgcc aaagagaggg ggcaacatct ctgtcaccc 300  
 tgagccacag atcaccggag tgggtgcgact aagcattccg tcatattaca ttagggggcga 360  
 cactaataac aaggactggc catcggtgat gaggcctct tccattgtgt cgacatataa 420  
 gacatgccag gagtgttgt cctaattctag aaacaacaaa ggactcc 467

<210> 28678  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28678

agctnttaag ttaaaggata tgactcttca catttgaata tgaatttcaa cattcaaggg 60  
 cactagtaat tgattaccaa aacattgtaa tgcattatag ctttttgaaa ataattggaa 120  
 cgttgtaaat tcagtttgaa aactttttca aactcatttt gctactggta atcgattaca 180  
 acaatatggg aatcgattac cagagagtaa aaactctttg gtaaaagggt ttgtcaaaaa 240  
 ttcatgtgct attcaaagtg ttagtgcttg gctttactga gttttaaaag aatggctagc 300  
 atgttggttaa aacataagca cttacacaat gaaggaaagc tggagttgct gcacatgatg 360  
 tctaacatta tgtcaa 376

<210> 28679  
 <211> 273  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28679

ntacatttag acgcacatac acaaagaca tgctcctgag attcactagt tgatctcgca 60  
 agcaattaac ttagactagc gggtgtttac caaattccag tgtaaacaac ggaagaacgt 120  
 tcttccatat gaactcacgg aagaaccttc ttccgtacga atgattgtca gttacggaag 180  
 aaagttcttc cgtaagaaca tacggaagaa ccttcttcca tatgaagaga atcgtttgta 240  
 cggaagaacc ttctaccgta tgaagaattt tct 273

<210> 28680  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28680

agctttatat ttgtntgttc ctaatttctc tacaattgca tcacctctca atgagctggg 60  
 gaagaagaat gtggcattta cctgtggtga aaaacaagag cgagcctttg ctttgctcat 120  
 agaaaagctt actaaggcac ctgttctagc tcttctgac ttttctaaaa cttttgagct 180  
 agaatgtgat gcctctggag tgggagtagg agctgtattg ttacaacgtg ggcaccctat 240  
 tgcttattct agtgaagaac ttcatagtgc caccctcaac tatccacct atgataaaga 300  
 gctttatgcc ttaataagag ccttccaaac ttgggaacat taccttgtn tccaaggaact 360

tgtcattcat agtgcacatc aatcacttaa gtacattaga aggcaaagca agtta 415

<210> 28681  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28681

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atattcataa taagttgtca cacacaatcg taacgagaga atttaacatg ctaccaccca 120  
cgtgcaaattg tctatcttcc ccagctactt cactttcacc caggtagcc aagaaaatgg 180  
agcataataa ttgaataaca tccttccgaa cctcctggtg caagcttact gaggaatgta 240  
tcagaacact ggctgctgca agtcgtgatc tgcaaaaaaa caaaagcatg cttgaaagag 300  
gtttcacaaa tggcttactg ggcattgaaa ttcattaagt ctaaccactt gataggagat 360  
acacatcaag ttaatcgagt ttcaatattt tatgcttgat agggtttcac aaatgcttga 420  
cttaattatc aactcaatct accgacatta tacttcatac at 462

<210> 28682  
<211> 349  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28682

agctttcagc ctattcacct cgacaataac tttntactcg gatgtctgat tgagtcccg 60  
aatataacga gagcgtcgaa attgaatgta gaagctgtga actagttcaa acgacaataa 120  
ctttttactc ggatgtctga ttgagtcccg taatatatgg atacgctcga aattgaatgt 180  
tgaatgtcaa agccaattca aacgacaata actttttact cggatgtttg attgagtccc 240  
gtaatataac gagacgctcg aaattgattg ttgaagctct gagccattgc aaacgacaat 300  
aactatttac tctgatgtct gattgagtcc cggaagatat cgagacgct 349

<210> 28683  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 28683

gcttaacatt caatttcgag cgtctcgata tattacgaga ctcaatctta catcagagaa 60  
 naacgttatt gtcggttgaa tttgctcaga gcttcaacat tcaatttcga gcatctcgat 120  
 atgttacggg actcaatcag acatccgaga naaaagttat tgtcgtttga attagctcag 180  
 aagttcaaca ttcaatttcg agcgtctcga tatgttacgg gactcantca tacattcaag 240  
 aaaaagttat tgtcgtttga atttgcacag aggatcaaca ttcaatttcg agcgtctcga 300  
 tatgttacgg ngcttaatca gacatccgag aaaaaattat t 341

<210> 28684  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28684

agcttgaagc ccttagtttt agttttgggt taataatttt gaaatgtcaa acatgtttta 60  
 tagatgtggc aattgtcttg aatgttttag actangcatg tgtgtgatat agtctaagtc 120  
 tttttaatac ttagttttga tcaaagttaa agtgaatgaa gtattttatt tctctaagtt 180  
 tcctaagtac aagcaataga acttacttct acttgaaatt tggttgtaac catcgaatta 240  
 attgattgcc tagcttggtg attgagtgcc taagccagat tcaaaagaag gaaggatgta 300  
 tagcttanga taattgactg ctctgttttt ggaaacaatg agaagttctc tatgtgattc 360  
 tacaatctat taccacatgt gacaatcaac taccagata gcacagaagc aatagagata 420  
 ctcaaactga aaca 434

<210> 28685  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28685

tatcgtaacc gattacacca atatttttga gacaatgatt gatttttagg agtctctgct 60  
 ntaatccatt accagtagat ataatcgatt acttctctct tannaagtgt ntcagaagtg 120  
 atcaagaaca cttaaatcaa ttacatcnaa aatctaactg attacatttg tctttgaagt 180

tttccaatnt ttgggaagaa cactntaatc aatcanaatg gtaataatca attacttctt 240  
 tgaaataatn gattacattg tataatntaat tgattacagg cagttattac gagctgggtat 300  
 aagctagaat aacattatta gaaaatatgt tttttacatc gggtatttat gactntcaac 360  
 atcngttttt aaaatcgatg tgaaagtacc gaccgtgata gtattattgg taacatcngt 420  
 tttttaaaac tgatgttacg taaaa 445

<210> 28686  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28686

agcttccatt ctgagagca tttgttattt aagcatttca gcctttgctt tcgtgtagct 60  
 taggaaaaac gtcatttctt cttctttctt tcttccaaag tcattttctaa agttccaaga 120  
 acatttctca tcaccacat ccaccattag caaccacaaa ccatcattgt tctccattga 180  
 aaaccacac cgagaggaac ctttcaaccg aagcggaatc ttccaacttg gcttgcggtt 240  
 ccggtagaga atgaaaacc taatctgacc tttcatttct tttcgaggga atcatggatc 300  
 tatgtttggt acttgtagt ttcattctgt cntgcatct tttctgactn tggaaccgcc 360  
 attgcatgtc ttatgcttcc tttgaacaac catagagaaa g 401

<210> 28687  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 28687

atcttatgat gttgctaaga gagtcatcaa gaatgtaatg cttatcccag attcgaagag 60  
 aaatgtgatt tctctgagt agtttgacaa acaacgctat gtgttctaag aggagaatgg 120  
 agttctaaag gttctaaagt gctccataat attcatgaaa gggatgcata agaatggctt 180  
 gtatttcttg attggagaag tgatgactgg atcagctgtt gcagtttctg tcaaaagggt 240  
 gtcatagact gaactatggc acagaacgtc tggacatgtg agtgataggt gggtgattgt 300  
 actggga 307

<210> 28688  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 28688

tgccacaagc atatcaatag ataaggaata aaattgctaa taatcataat aattgtcaca 60  
 agagtgttaa cgaagaaatt taacatgcta cccaccagtt gcaaattgtct atcttcccca 120  
 gctccttcac tttcacccaa gttagccaag aaaatggagc ataataattg aataacatcc 180  
 ttccgaacct cctggtgcaa gcttactgag gaaggtagca gaacactggc tgctgcaagt 240  
 cgtgatctgc aaaaaaacag aagcatgctt gaaagggttt tccaaatggc ttactgggca 300  
 ttgaaattat aaatctaacc atttgatgg aaattcacat caaggtaatc gagtttacia 360  
 tatttttatgc tt 372

<210> 28689  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 28689

agcttaagat taatctcaaa gttgcaaaag tacaaccttg taagagactg agtatgtcat 60  
 gcaaagatga tttacatttt gaatcttgct aaaagggaaa acaagttaaa aaactctttt 120  
 tccagtaaaa atattgtttc cacctctaga cctttagagt tgttacatct tgatctgttt 180  
 ggcccaacaa gaacaacctc aatatgtggt aaaaggtatg aacttgatcat agtgaatgat 240  
 tactttaaat ggacatgggt aatgtttctta gccacaagg atgagtcttt caaggatcat 300  
 taaaaatttt caaaatagat taaaatgaaa atggagcatt gtcgcaacct acccttcgtc 360  
 gggagggcga cgcgagactc acgggtgcat cttccatgg 399

<210> 28690  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 28690

ctataagcgc ggggtctggga gacaaaggctc aagcggttcgc gatatgagag gatgatattc 60



cgagtacttt ggatttggta cgaccatgcc ctcttgattt ccagctggga aattggcgag 120  
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180  
 ctctataatt gggcctagga tttagagtgt ttctttttgt taaggctttg agtcttttgt 240  
 ttatgaattt ataatacaag gatctttctt catctggtcc tgggtctctac ccattctcat 300  
 tcatttgcat 310

<210> 28691  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28691

agcttgtcta tctatggaat ttaacatcat atatcatcga ccatatatct gctaagaact 60  
 aagggtttgt ctctatgcct agtataagga taaagtcttc tgcagtaaac tacctcgtaa 120  
 tttagagcta catgacataa tttatcaaat tcgattaaca aataaaatat tttgagagta 180  
 acactttgcc ttcattatc attttttttc attctctcct ttttttctct tanaaaaatc 240  
 aatacaccaa tagccgacaa taattttaga attgcatttg gtttggttaa catcatgatc 300  
 aatctatgtg atcattgagc gttgggtgaa attcggttaag aatatatata tatcttttat 360  
 tttattactc atttatctat taatgcaaaa tatttattga tcttggttat c 411

<210> 28692  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28692

tgctagaata ggtttaatcg cagttcagtt atatcagagg cgctcattn tttatttntt 60  
 tttgctttcc cattagtgt taatttattt tcatcattgt gagatgttat atctgttttt 120  
 tggctgtaaa atatgcagat gatcgtgagg ttagtgctga ggagtttgtc aggatggtga 180  
 acaataccag ctaccctcac taatcgtaca gaaaatntaa acttannaat ttaaaagaaa 240  
 aaatgaagct atactgttgc taattgtacg agctgtatga atgattccca tcatgaggct 300  
 atgacggtat tgcctatgaa atacattgat gttaccata ttaatttggt ctattctact 360

cattttacttt tgttctaatt

378

<210> 28693  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28693

agctttctccc ttatttttcct attaataagg ggagaggtga agggaaaaaa tgttcagccc 60  
tcctggtaatt tcaagatcac ttgaaattag tgaaaaaaat tggttccgtg aagataatcc 120  
aagccaaggc gcttttcgtaa cgattctgcg ggtgatttcg cgaagattat caaccgttct 180  
tcgacgttct tcgttcgttc ttcgtcgttc ttcggtcttc aaccggtaag ttctgaaat 240  
cgaacttttc aattcatttt atgcaccctt ggtggtcctc atatggtggg tgtactatta 300  
ttctcgtttc attacttttc gtaccactt atgacgtgtt ntagtcatta gcttacgtca 360  
tattctcgcc tagtcacaaa ataaaataca tattcaccca tcatttg 407

<210> 28694  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28694

tctaattgtat atttctagac cgaaatccaa ttattaacat ctattgcctt aatgagttga 60  
ccattatttg accaaaggat tntcattgaa ttatccttat tctttctaga ctttaggtta 120  
aaaacttaag agcttaacca tgctttgggtg tcctatggta acatctcttt ttctatcatt 180  
tcaatagtct aacaacacta ttcaatcaca caacatagca ataacattgt ctaccacaca 240  
cacatgataa attgggatgt tacagatggc tcgttcattc tagcatttgc tctactaagt 300  
aaatgt 306

<210> 28695  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 28695

agcttcgaga taagttacga gacaaactaa tttcgtcact caaggggtgac gcaatttaaat 60  
gctagtcact aagattatga ttacatatca tagtatgtca ttgttaatga aatgagttga 120  
gatgtttctt tcgaaaaaga aaaaaaacta tcttaaaaca gacttagatt tagattttgt 180  
acttgtgtgt ttggatacct tagagaatcg attttaacaa caaaaatcac ggtgaatgat 240  
aaaaaaaatc ataaacaaca aagaatagct tcaactacaac catgaatata aaatcgatta 300  
tgcaccacca catcgtgtat taactttgct tatatcgttg aggcggtact ataattgcac 360  
tacattaaac tattattaat ctttgtttat ttgtgctoca ccagatctac attatgtggc 420  
attggagaca cca 433

<210> 28696  
<211> 300  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28696

tgaactactc tctgtaaata gaagctagat tgcattgctaa gcctcacatc ttatgctaag 60  
tgcataatttc agaaaatttt gtgttgcaaa aagcactaag cgcagcctgt tgcactaagc 120  
cccagatgct cactggaata tgaaacttca agttgggctt atcgtgaggt taggctaagc 180  
gcttgggaata taaactcana tgtcacgtgg gcgcgctang ctcagctgtg agctaagcgc 240  
gccatacgaa tttcaggttt taaaataaaa agctgaagca ctttggggcgc tatctttaca 300

<210> 28697  
<211> 347  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28697

agctttaaga atatttgcaa catcgttntg gatatttaac aagaacattc tattttcttga 60  
cattgggtacc ttggtaatta gattatttct cccatctctg atggaaagac tagaatcttt 120  
catgtgaata tcatagcctt ttttgagtaa ttgtcccaaa ctcacaatat tgttcttcat 180  
atttgggacg tagtagacat ttgatatgaa ttcattgtctt gcacacctca natggattat 240  
gatcttacct tctgtctttt atacgaatct tggaattata acagattatg cattgccact 300

tactgactca tcaagatcca cgatcatgct ttcttctcac acatatg 347

<210> 28698  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28698

tcaatgttaa tatcacatca gataatgtca aaaaccgtat catattatgg atatcgtggt 60  
 atggtattgt aagtgacatc cttggccaga gtggggttga ttgggatggc actaagcaca 120  
 tgatcacagt tgagaatgaa aatgcttgga gtgaatattg cactgtaagt attctttaat 180  
 atgttgctat ttgttattca aagtagattg gatntgatgt ttattctttt ttttcagtcg 240  
 cataaatcgg ctaaaccgtn tcgattcgag gtgcttcaaa actgggatga tatagtggat 300  
 ttgtgtgcta aagatagagc cactagtcac aaagctgaaa tggatatggat gctgatgaag 360  
 cgatgagtag agaaacaaa 379

<210> 28699  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28699

agcttgtaa ttcgtggaag ctccataat ctccacact ttttggggtg ggccattctt 60  
 ggatggcctt gattttctca aggtccactt ggacccatt tctacctact acaaaactta 120  
 agaaaactat attatctaca caaaaggtag atttctctat atttgcatag aggggtgtttt 180  
 tcctaaggac tgaaagaact ttcctaagat gtccctaagt atcatctang ctctactgt 240  
 atactaaaat atcatcaaaa taaacaacga cgaatctacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360  
 attcatacaa accaaacttg gtcttgaaag cggttttcca ctcatcacco tttntcatcc 420  
 tgatttggtg ataaccactt 440

<210> 28700  
 <211> 384  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28700

tctcccncaa ttntctataa atagggggag aagtgaagtg aattatggta agtacctcga 60  
actaagctnt togattcatt ctatgtaccc gtggtggtcc acattgtggt tcgtgtatatt 120  
ttattctcat tatatttact ttctataccc ccttttgacg tgcttaagcc attttattta 180  
agtcatttct cgcttaacct agaaataaaa taaatttcca ccgatacgtt gaattgtatt 240  
atctgttaac ttcgggttaa atgaattccg accattcgat cgtgccgtaa ccacgttgga 300  
aatcaaaaag aggtaaaata ataataaat aatgacaaaa tgccttctag taaaataaag 360  
cgaagaatca attggacggt ttct 384

<210> 28701

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28701

cgcaagcttg gagtttgctc ataccaagtn gagtctttnt agtgtgaagg agcagaaata 60  
tatggaataa atagaagtat gtntaccttt tgctaacaat ttattgatac atgagtgtgc 120  
ttttaacggt gaagtaaaca taaagttgcc tttgatttag ggttttatgt cccttcttgc 180  
ttatgagaat ccagtggaat gcccaatgtg tcatctgatt ggcttagact atcggcaaca 240  
agttgtggat agtttgacat aactccatat gctcgacaaa tgtagtagaa tattcttgggt 300  
tatcaacaat tcaattatga atcaatcaca acgagttact tcacaatatt gaatatattg 360  
tgggagatga tgatgtggta caagttcaat atattgtagt aggtttggac attgtnttat 420  
gtgtagctca tatattt 437

<210> 28702

<211> 225

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28702

gttaagatgt gtcatttgt ataaacaaca tctatatata ggtagtagtt caagctcacg 60

ttaccacaag ctgcaataat atgtgaacat ggatagtga ggcgagaata ccttccgcat 120  
 tgacaataat gaccatncac gtaaactgcc catctttgtc cgccacgttg ggtaatatga 180  
 ttgaaggtct cctctacttc anaccttgtg gagtggatgt catac 225

<210> 28703  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28703

agctaacaaa atanttattg tatttagctg gctnaaatca aggcaagggtg ttgtgtctaa 60  
 acaataatct atgcctgaat caacttaca ataactttac aataatgaga aaaattaata 120  
 aacgagttct atatttaaaa caaatatact aacattttac aacagaaaaa tagactatat 180  
 accatacgag ataattatcc cagctctata atcatctaaa atatgggtac aattgtataa 240  
 catataatta taataatggg gtgagtaatc cacacttata taattacaca ctcatgtaac 300  
 cattacgaga tatgaaagaa agaaatatgc tcaaacattt ctttatcata ttcaagtaat 360  
 atgtttctaca tgataagtta ca 382

<210> 28704  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <400> 28704

agtcttttgt ttctagaat acaagggtatg ctgaatgtac ctggatcttt acattcttca 60  
 gggatttggg gaacagattt acgcggagac atttctgccc atactaattc tttcacttcc 120  
 tttaagcttc cgcttattag tgcacagctc cttcaagaat ttagcatatc ttggaatttg 180  
 ctctattgca tccagcagag gtatgtttac ctctactttt ctaaagtgtt ccaatatctt 240  
 cttctctgcc tcttccatta ttttggttga aattgctctt ggaggggaatg gaagagggat 300  
 atgctgcttc tctttagaat cacctgcgta gaaattgtta ggtaacttac ttcttaaatt 360  
 cttgtcatca tctctttcta gagtaaagtg acgtt 395

<210> 28705

<211> 625  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28705

tcacagcgng tatcanacca agtcccgcga nagacatacg tatctgacgc acnctcaacc 60  
 anccaccacn cnccccncnc aagcccagca gtgcattggg gccgttggn aacccatgca 120  
 anatacgca cacnatacag aacgcaagct gggaacgacg ctggcaaagg cgggagcgcg 180  
 gattctcgcc atgtcagcag cggaacacgg atgcggacgt gcgcgagccc gccattgggt 240  
 cctgcggcac accttagaag agttgatgga ggacgatgcg agaacgagaa tgaggcggat 300  
 cttgatattg cgctgagaat ggaagatgct caagagagag ctgtggaaag cggacgttgc 360  
 tacgtgagtg acattctccg atgagagaga tcatgacgcc aaactagggc acaccggtac 420  
 atctgtcgaa taagacaaca ggatataacc acgactagac acctgcta atgtcgacacc 480  
 aaccaccta tgnttttaggt gccaaacat aatgtaaca cactctgctc gaagaaaaca 540  
 acaattacga caacaacgtg gatcaaggta ccaacctatg tcagtcgaca tcggacgagc 600  
 gcgatacccc agaagaacat atacc 625

<210> 28706  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28706

ttcactctta tgatctattc angcgcataa gatatgggtg acgctctgaa attgaacgat 60  
 tggagggtca tcgatctgat tcatatcggt catgaactct tgcactctcg aagtcttgat 120  
 tctacgcgca ttggtatagt ggagacagct ctagtgttga acaactggaa cactcttcga 180  
 gcagatataa gatggatcat aacttcttta ctacagagcg tcgcgattgc acgctgcata 240  
 atatactcga gtacgtctca tgattgagca atggaaccct ttcgtgcaat tggaagggtc 300  
 ataacttggt actcggatgt ccgatcaatg cgaataatat atctagacac tttaaattga 360  
 acaatggaag ctctagagcg attctgatgg tcataacttg ttcactctga ggcttgatc 420  
 atgcgcattg tatatccaca cgctcatat tgacaacgga g 461

<210> 28707  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 28707

cttgatggtg tgcagaagaa atcacatggt tgtcatcatc acatatgggg agaattgtgaa 60  
 tgtatgtata catgattctg atgatgccaa agaaaaatca aacaagggtg cttcaaata 120  
 taagcattcg cttcaagaat aattcaagag tgcttcaaca aacaaagcct tgtttcaaga 180  
 ttactaaag accaagcctt gccttagaac aaagtgttt caagacatgc aaggctctgg 240  
 taatcaatta ccaggaagtg taatcgatta ccaaaagaca tgggtgagaa atagctgttg 300  
 taaaacgggt tgaatttgaa tttcaaca 328

<210> 28708  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 28708

agctttcaac ttatgtctgc tctaaaaatc atcacacagc agataactat acaaatttac 60  
 ccatcatatc ttccataacc ccataccac gaaaatcaaa ggagatagag gtccacccaa 120  
 acctgatatt gcgaagtccc actcgtaacc actcactgca cgactccaaa aatgccctcc 180  
 tttcgcgatg tggagcagaa acgagcacca aaggtaggag ctttggtggg gttatcatgg 240  
 agaattgagg acatagaaa agcaacgtca tgaagaggga gacttgctga acagggtggg 300  
 gctga 305

<210> 28709  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28709

tgaagggaa gagagagacc aatcacgagc acatagctng atcttgatag aggagtaggc 60  
 tgcttgctca atgtccnaaa gatacttgct tcagcgttta tgcgagacag agaccaacat 120  
 gttagctatc gtcagcaagt accaagataa actaaatcta gccactgcc acgagcacia 180



agtggcggac gagtatgccc aagtgta

207

<210> 28710  
<211> 102  
<212> DNA  
<213> Glycine max

<400> 28710

agcttctaga ggaagccaca taatggagct acgagagata gctacctgaa gctatctcgg 60

caacaatgct ttccagactt cgaaaaccgt aggatcttga cg 102

<210> 28711  
<211> 249  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28711

agcttcccta tttatagaag agtgggtgtgg cttccttcaa gagtgagtgg tggatgtcaa 60

tcaatgcgtt acattcacaa tgctccttgt aactctaata ttcactttcc taagtggagt 120

gtgtaagcct caaggtcaaa gaaaccaatt acaagccttt ggaaagtgtc tcacaacttc 180

ctatgcatgc ctnggaatgt gttcctcaat ttctgtgta tttaaatttg tatgtgtcac 240

aacctaccc 249

<210> 28712  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 28712

tacatagatt ttaatacaag gactttaata gtagaagaat ccatccatgt taaattcaat 60

gattgggtctg tctgttgac ctaaagaaag tgaagtcaaa caatatgatg aaatctttcc 120

ccagaatgaa ggatcttcaa atcaacaacc attgacaaag gactataagt tagtccatta 180

tcatcaacaa gatcagatca ttggagatca aattgaagga gacaaaacca tatcatcatt 240

cacaaatctt gtgtcttttg ctcttgacaga aatagagtga tgatttgatt cttcatcatc 300

ataacttaata gtagagaaaa taaaattatt tctctatgag attgacctaa gaaatagaca 360

aacatcactg gtgatgactg ggatcacgcc gacccaatca ataacatata tgcataactt 420  
gaaggatct 429

<210> 28713  
<211> 217  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28713

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tagtcgaaga gaagttcaag tccatagcca tcatagtctg acaagagtat gatgaactaa 120  
gggacgtcaa tatggccaca gctgaagcct tggaacgaga aaccaataat gctcgaatgg 180  
aagaacacga ccgaagcaaa gtnttgaggg gctttat 217

<210> 28714  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 28714

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ctactcttaa aacaaagatt gcatacaacc tcccccgta aatacaaaca tcaatgtaaa 120  
tttagagcaa gcatatgcgc atatattcctt acgaacgttc acttgcacaa gacattctat 180  
taactataaa caaatgcacc catatacaat caaggcagct gtcgtatcta cattacttac 240  
atgtactatc aacgtgtatt agtgactaca tcacacacac ctcccttggt aaattttacat 300  
acttgattac tcaaacattt ggggtaccaa aaattgccat gtgc 344

<210> 28715  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28715

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gcaagccgac tgtccacata cacaaatgac acataaaggc accataccca gttgcccacc 120

ttgaaactgag ctcacgtact tacacgtaga ccttatccga tgttcttatt aacaccgggt 180  
 ccccatcaat acctccaagc ttccacaaca tgcaagcaat tcaacatcca aacatcatga 240  
 gctatccaaa ccaagaaaat atggcagagg cagaaaaacta tgtccacaac acaatccagt 300  
 gccagaacgt tacgtactca aataccgcag taacattntc tgagttgcga ttagacaacc 360  
 gctggatcga ctcaaaacat ctactggagg tacctaggac ataaatgtac attttgaccg 420  
 ttgggatatg ctat 434

<210> 28716  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28716

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 ttcattctct gttgaataaa attctntatt aaaatgacta aattcaattt ctctttaaat 120  
 gatttatcca aacatgtaat ttaccttga aatatttcaa ttacatgatt aanatgaatt 180  
 acccagttaa nagtcatcat ctaaacacac tcttagtgat tntatccggc tcgtctagtg 240  
 gaatttacct gtagtcgaga caaaaaaat tacaaaatac ccaaaatggt ggtcaaacaa 300  
 tatgaaatcg aggagcagaa aatcaattcg tgccccaatt gttaccaat catacaaagc 360  
 agatcaatca actctatagc gtagagcatc gtacaata 398

<210> 28717  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28717

agcttgacga ctaaagcaac ctcccatggt gcacacaaac cttcaaaaat agagtcggct 60  
 atgtgaacca ttggcttctt attcccgacg accttatctt tgaatagaac acgtttatcg 120  
 acacccccgc catctggttg ctcttttctg aagccgccac caccatacc acttgagag 180  
 aaaacaaagt cctgagccat tntaacttag cctgcgtggt tcctcgttac atattagatt 240  
 gaggacaaaa atagtaaacc gaacttcaat taataaaaaat gcaataactca ataagcataa 300

acgaatgaga taaaaatagc cattaagtnt ctactaagtt attcaaatat taaatnggat 360  
 ttgaatgtat acactttttat tataattaaa gtgaaaactt at 402

<210> 28718  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28718

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 agttagtctc cagttctttt tggtgtttct cctctctccc tcgactatnt gtttgggcat 120  
 tcccccttcg cagtctatct acccctcttg tgacaagaat aggccctaaa tcctcaaccc 180  
 tcctccttca ataacaactc ccttctctcc ttattctata tcctccctct tctacacttc 240  
 tcacacaagt tgaaattatt tttctcctat cctaatacta ccaccacctc caccaaacc 300  
 aatgccccat ntatgtttcc aaacccttt tcaccctctc gcaagtcac atgcttttct 360  
 catgtgctca aatccctcat tcttc 385

<210> 28719  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28719

agcttgaacc atatatctgt gagagtgtgt atcttaaact gtgagtgaac gactagctgt 60  
 gagtaataat ctttgcatga gtctcgtgaa tttagaatga aatgtataaa tgaggacatg 120  
 atgaaggcca tgattgtaca tatacaagct cttttgacca aacaacttac cttgaatgat 180  
 aattgcatcc tttgctccct ttttgagttg aatgatattg tcaaaaaatt gaaccctgaa 240  
 cttaaataat tatctcctga taccttggtt atattttatg agagcatatg gttcaaggag 300  
 aatatactct aaatctgcgg gagggaattc aatcataatg aanagaaaaa ggttaagcat 360  
 cagcacacac aacaaataag ttgtctgtca aatgataag agaaagaaca gaatatatta 420  
 tgctgttaca ataag 435

<210> 28720

<211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28720

tattaatgac aaaactntgc acaatntaat cttgatctan tttttcaatc actagaccac 60  
 aatccatagt gtggtgtgaa aacttaagtt ctgcattgga cgacagggtt aagaacttgt 120  
 tttggttgca aaatgacttc cattgcgaan atatntataa ttttatctaa catactatnt 180  
 aactcccccc tttctagtgt gatttattat atttcaagaa cttggggggt tgcataaccg 240  
 ataggtattc gactagggtta gtaactagta gaaagaatgg atataacatc gttacgttaa 300  
 catc 304

<210> 28721  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28721

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 cccggtctgg attccgacat tgtgcagcat aagttgcctt tgaatcctgn gtcttccccg 120  
 gttaagcaaa agttacgaag aatgagaccc aagatgtctt taaaaattaa agaagtaagg 180  
 aagcaatttg atgcagggtt tttagctgtg gctcgggtacc cagaatgggt agccaatatt 240  
 gtcccagtc cgaaaaagga cggcaagggt cgaatgtgtg tagactaccg ggacttgaac 300  
 cgagccagtc cttaaagacaa ttttccccta ccacacattg atatatttgt agataatata 360  
 gccaaattcg tccttttctc atttatggat gggttctcgg ggtataatca aataaagatg 420  
 gcacccgaag atgtagag 438

<210> 28722  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28722

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atgatgtttg tgatgtntat atgctgaaat tgctgatgga catctgttag agatgaacgg 120  
tanaactaac ccacggtag aaagtgagaa tgtgacgtta ttagttggaa aagagtgaga 180  
ctttgagagt tggaacgcta agtctgaatt ctgtggtaca tggagggtag agtgagttaa 240  
tactagcttg aaatgtcatt tataacatgt g 271

<210> 28723  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 28723

agcttgtaa tttatagttt ctagtccact agccattccc atctattaac atgtgcaa 60  
taagaatgca ccaagttatt ggagagtaaa ataatgatga ttttgagcaa gctaacaatgt 120  
gagaaataat tgatgaaaaa gacagactta atcgtactga gctaaataaa gaagataaat 180  
tgggctgttt ggcccatcag acataagtgt gaaatggcta ttaatcaa 240  
gggctgcaaa tttgttgacc tggaccagcc ttgtgtaagg ctagcgggcc aacaagtcaa 300  
atcattccta attaagaata accataaaac ataaaattaa tcataactaa tatacaaaat 360  
gctaagaaat gtatataaat taacaaacaa aataaactaa aatgggtaat tgagttgggt 420  
cataaaagcc a 431

<210> 28724  
<211> 233  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28724

ntntataata attatataca aaaatgtcac aattataatg atttcttatt cattattggt 60  
ataagtaaac aatgttacta tgtataaaaa ttctaattta acaaaatatg tttttattaa 120  
aaaattcatt tcattcatta ctatgtatag atattatgta ttatgccaaa tggataactt 180  
cagttgtaca tgctgaagt ggtgtcataa atgcttaagc tacaatacac aat 233

<210> 28725  
<211> 364  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28725

agctttgatc tatccaagat tatacaaagg cgttacaaga gaacctaacg attcctaatt 60  
atatgggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatctcctcg 120  
ggggcagtac acactntggc catggctatt gctttggcta acagatggcg gaggtcttga 180  
cttcattca atgtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaacgca 240  
tcaatcacc cccctcttgc ttctttatcg gcatacactt gtgcaaaatc ctccactagc 300  
ttttgttcat gggccacaga ctggttcaac tctttctttt attgccctat gatagctagc 360  
atgc 364

<210> 28726

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28726

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gcacccatat acaatcaagg cagcttcggtt acctagatta ttacacgta cttccaagg 120  
gtatttggtta cttacatcac acacctcctt ggttaaattc acatacatgc atactcaaag 180  
cattttgggg taccaaaaaat tgcacatgtg cacatcttgg tattttctaata acctatacat 240  
acacaaactt catgatgaat cttgactatc tacacaataa ggtgctacat tttatgctct 300  
tttcaagttt ttgctaccta aagccgcatg caaattcaag tatattttcc tttgctgact 360  
aaaattgtat tcaaattaaa aggtatacat tttttggtaa tgtatcttct ttacataaca 420  
tgcaacatat ttatgt 436

<210> 28727

<211> 415

<212> DNA

<213> Glycine max

<400> 28727

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cactcaccaa gtatgaagct cgagcttaac gaaccttgcg tgtgtagcgc acgtgcaatg 120  
 ctcttgata catgttggtt ggggtatacc atgtactgta gtcatagcgt agagctatta 180  
 catacgtgtc actcgcggag tgatacgtac aggagacatg gcgctcttga atacatggca 240  
 cttatgaagt ggcacatact gaacactcgg tgtcatgcta tagcatacat ggcacagttg 300  
 aagtggcccg tactggagac atgggtgctct tgcatacatg gcacttatga agtggcatta 360  
 cacaatacgt ggtgatgtgc tcttgcatatc atgacactca tgaagtggtc atact 415

<210> 28728  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28728

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 attgtttatc ggtgtatgta tctgaaggtc agtgggagta aggttatattt ctaattttgt 120  
 atattgataa tatcttggtt gcagctaacg atcttgggtct tcttcatgag actaagaaat 180  
 ttctctctat aaactttgaa ctgaaagata tgggtgacgt aagctatgtg atacggatag 240  
 aaatattcca taatagatca taatgattgt tacgcttctc tcacaaagta catatatcca 300  
 taaagtgcta cagaaattca agatggacag gtgtttaaca tcgcctattc taatgtataa 360  
 atgagacaca tttattctca caccaatgc 389

<210> 28729  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <400> 28729

agctttatgt ttaacaaaaa tgggtgcagtt ttattcagca ttttgcaaca ctttagctgc 60  
 attctctgca actaatgttg ctgcattaaa caacatttct gcattcttca atcaaaacgt 120  
 gcgaaatggg aaggaatgca gctggagggtg caataaaaac atgcatgttg aaatcgagaa 180  
 taatcacaca acttctaagt cattgaactt cctaagactc actattcaga tgaatgggtga 240  
 agattgaagc aagaacgaaa tggaaggcac atgtgcaatt gaggaagtcg ttgaagatca 300  
 catgacttca ctattcatgt taaatcattt tatataaatt aatatattat acgtcgattg 360



cacggctagt ttagtttata c

381

<210> 28730  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28730

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tatgaccttt caagcaatag atacaatcca gggtggagga atcatccaaa tctgagatag 120  
acaagtcctc cacaacaaca tcagcctgtc cctcctttcc aaaatgctac tggccaagc 180  
aagccatatg ttcctcctcc aatgcaacaa caacagtagc agtcacaaca aagacaacaa 240  
gcaactg 247

<210> 28731  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 28731

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gtatttatga catttgaata cttagtattt cttttattat tggattagta tgactgaaca 120  
tgatgatcat atttacttgc tcttggttgc ttatggttat gaagtittaa acttaattat 180  
tttgatgatg tatgactaga ggtatgcatt tttatttgggt tattatgaat gactttctgg 240  
attatatgac attctataga gtattatctg tctaagattg atgaatgatt aagatatctt 300  
gttagattga tttctattct tgccgatgtc atttatgtat ggtaattata tttcttacct 360  
ctctaagttt gatgaatggt taacatatcg tgcttaa 397

<210> 28732  
<211> 229  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28732

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ttgagcttga cttgatagaa cctctttnta agcgaaggca ttcgacttga tcccatgttt 120  
 tactaaagtg aacaaaaatc ggcgcgaaatc anaactccaa catctatcat ggggtggaaat 180  
 ggatgaatgc ataaagaaat gcatatgaca tatatgcaat ttacgaata 229

<210> 28733  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 28733

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 gtggtacctg cagatatgtc gcgggggtca ggagacctg gggacgtcat gtgggggtgct 120  
 attgccc aaa accaagcttg accaatcccg acccaacccg ggcatagtcg gtcagtgaga 180  
 acctgtgatg tacctaaaca ggcgagctcc tggcacttaa catataaaac gaacacagac 240  
 caciaagcaa ggaggctcgc tgtggctggc caactgtgaa ttttgagtga tatgtaaagt 300  
 aatggcctct ggtaatcgat taccaagggt gggtcacga ttacaaggct tagaaatgaa 360  
 gacaggatgc taagatggtc tctgg 385

<210> 28734  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 28734

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 tgtctgaagt ccagataatg cggttatcatc aatatactgc tctacctaag ctgatcaata 120  
 aaatcagagc atcttgttta ttgctcacga atatgtacct tggtccttat tgccgttcgc 180  
 tacttcgctt aactatgcac tgcttgaaag ttcttctaatt attaaaggct tattactatt 240  
 tgctacggtg tgaatgcga 259

<210> 28735  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28735

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naagcctatg ggtgtgctgc attagggaaa tgggatggat tctaggtata atacagtata 120

tactttataa cctaacctat gatctgggac cactcacgat tagtgggaaa gactgacat 180

cattcttttt tctttaacaa aatgtcgatg ttacctaagc gataaggata gaaggatggc 240

catactatat cttcatgaag gtcacgctca atgcacagag tacgtaatga tagtaagcgc 300

tagagacatc tttatagaac gtgctttgct cgtcaatctc ttnggatgag aactctctac 360

tacggccagt gtccacatt ctogtctac cttcacttta tcccttacat aatcgtgtgc 420

gtagagtga gtttcttttt cg 442

<210> 28736

<211> 312

<212> DNA

<213> Glycine max

<400> 28736

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ggggtgctat tgcccaatac caatcttgac caatcccgac ccaacccggg catagtgggt 180

cagtgagaac ctgtgatgta cctaatacagg cgagctcctg gcagtcaaca gataatagga 240

agacaagacc acatagcatg gaggcttggtg gtggctggcc agctgagaat ttagcgtaat 300

atgtggattg tg 312

<210> 28737

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28737

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tattgtgagc cttgtggacg agattctaga gggtaatttg aagaacaaga tcattgtaaa 120

cagttgtagc atttgttgct agagaaatga ttatttggac tcaccacgtt cactagagca 180

gactcggtc taactctttt agacagcttc aaattaattc cattgttcat tatcaaattg 240

atatgaagca catgatchnaa tctgtcagca gttttattat agtaciaaaga ttagcttcac 300  
atgaatggat gttcttttta tatacgcatg gattttatta catatatgtt tcaaagtt 358

<210> 28738  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28738

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actcgctaag caccgacatgc cggcttagcg agttcatgtt tccaaaaccc ataatgtatg 120  
aactcgctaa gcgcggagat ccggcttagc gcattcatca ttttccagaa gttcaactca 180  
tgaacaaaca caaaaagaga gcagaatcat agatatattg actaattaca acatgtacat 240  
acaaaaccta aacatagtgc aaatcataac atagtaaata aataacatat tataatagaa 300  
catgtataca ttcaggagaa aaaaattatg aatgagggga agaaagtgtg tacttgggag 360  
caaggaatat gaattatgca cgaggggaaga gcggctcaag ctogaatntc acaaagagtg 420  
agtgagtgag aagagtg 437

<210> 28739  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28739

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ttcctatcaa ggataggata acaggagata acaacatgat ctctacaagt gtttctaattg 120  
aaacactagc aatctttaga taaaaaataa accacaataa tcatgaaatg tntaatactt 180  
taacaaacca tatgacctca atcttaaate ctacgttaaa gactaccaac gacagttatc 240  
aatagatgaa tggatatctta actcacacag gagatacttt ggccattcct agaaacgaac 300  
ctngngaataa acatgcaatt caagaaatac tagtacaaga ggaacctatt aataataata 360  
atcttgaaaa cgaagttaat gtcccgtcac gaatagtgag tgat 404

<210> 28740  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28740

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 taatcgatta cacagtgcaa attttgaatt caaatTTTaa tagatgttgt aaatcatttt 120  
 tggccactgg taatcgatta taccctctgg taatcgatta ccagagagta aatctcttga 180  
 aaaagacttt ttaacttaaa tttcttggcc aaaccttttg ctacttcaat taggaattcc 240  
 cttcctatTTT aatataccct tcctaagact ctagagactg tcttgatcat ccactctgaa 300  
 tatctTTaat ttctttgtct tgaataaagc tttgagaagc atgtgatcct ttggcatcat 360  
 caaaacattc agcttgatcc tttgtctaca caaatgaata aatatttacc tcatgcatac 420  
 attntanaac gtactat 437

<210> 28741  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28741

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 tgtatagcac aattccttac aaccataact gagatcaatg aagctaagtg ccagtgagtc 120  
 ctcatcaact aagcgcatgc tcctctgtac ttaagatgca tcattntagc taagacagcc 180  
 agagtctggc ttagcgagag ttgcagcttt ttggatctgc anacctcgct aagcggctctg 240  
 atcctcacgc taagccaagt tgtgtgtaaa aaaaataatt ntgaatttga aacgtcgact 300  
 aagtgcgct atccgctaaa cgagccttgt tgagaaacca aatgtctctc tagctcgctt 360  
 agcgcagtg 369

<210> 28742  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28742

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tcaactcaga cgagtgttat gcctctgaca tgaatagtat gatgcgccct gtgcttacag 120  
actggcggag tctgtcatga tgtacatagc caaccaacct gactgtatta cacagacaac 180  
tcgctcatca ggagcataca caaagatggt tcccaagagc ttctttgcgt cggagaataa 240  
taactactaaa aaatcaggac attcac 266

<210> 28743

<211> 177

<212> DNA

<213> Glycine max

<400> 28743

acatcacagg taatccatca gagaatatga gaagatacac tttcgtgcac atacatgaaa 60  
cattatgctt ttgtcatatt gtacaactgt tcctaaatag acaagaaagg ccttacgcgt 120  
gtgaacctaa ccaactatga atttggggtg tcgaaataca tcaaccagat acatgtg 177

<210> 28744

<211> 409

<212> DNA

<213> Glycine max

<400> 28744

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caaagtactt tctgcaccta ctatatgttg acttgaccaa cgctgatatt ggaatgctgc 120  
gacaatcttt caacacctta ttgacacatt ctgatagggt gggtgtcatg tgaccatatt 180  
gtcgtccaga tgtatcgtaa gccatgctcc atttttcctt tgaaatgcga tcaatccatc 240  
ttgctatggc tggactcagt tgacgaaatt tttctgagta ttgatcaaac acatgcttgc 300  
aaggagtgta cgctgcatca gattagtatc atcaaagtgt gtacgtagac atcaaactca 360  
aatcagatta atgtataaaa tcaaccttac ccaatctctt gaacatctc 409

<210> 28745

<211> 228

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 28745

gcttatggca gttgtagtat ttgtatactc taaggcagct tctaaggtgt acatcttatt 60  
ctatgtggat gatatacataa tcacgggaaa tgactctaaa ctaattcaaa cacttgtgac 120  
tcaactaaac attntcctta aaagatgttg gagatcttga ttatcttcta gggatagaag 180  
tctctcatta tacagatggg tctcttactc tcaactcaatc caagtatc 228

<210> 28746  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 28746

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gttagttgta attcagtata ttagttgtaa agtttggttag tttgttttagt tagttgagtg 120  
tgataaggca gtgattgagg ctgaacttga gttgtataaa tggcctttgt gtaattcaat 180  
tcataatgca attcatcaca ttttagtata tgctttttct tggctttctc tctttctccc 240  
caacatattt ggtatcaaga gcactaagtc ttgggactag gtgggataag agaggtgtga 300  
attgagaaag agtggtgaga gattcaaaca gtgtggatcc tttgagtgtg aaacagttga 360  
gagttgtgag attgtgagtg aagcaatctg tgaggcattg agaatcaaga tttggcgaat 420  
ttggatct 428

<210> 28747  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28747

tcttcaccaa ccacacttta tgatcttcac gccattccag tctntattac acgattccca 60  
tcacaacata acaaatcacc acgtcagagg agccataatt gcagcaagta ccctaagcc 120  
acatcaacgt actcactgca tgtactctca acccattngt tttcccttgc acttactcca 180  
attcagcana ctgagtttgc anactactta acnntatttc aaaacgcaa atcagcaa at 240  
natcagctca tttagcta ataatcttcc ccaatacttg ttaaaaaatat tcttttacaa 300

aaaaaaaaaa acagtccaca

320

<210> 28748

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28748

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ttcacccgat gaagacactg acaaaaactt atctttgcct tcttggacaa agtatggcag 120  
gctgggggca agtaaatctt cttcccatca gaccttggat gcaactgtga tcgtataccc 180  
atatcagcta gatcttgatg ggtattcaag ccaccttcg tcttgccttg aatgttaagg 240  
agcgtcccaa tcacactgtc acaaacatta ttctccacat gcataacatc aatacaatgt 300  
ctaacgtcaa gatcacgcca gtacggaaga tcacagaaga tggacctctt cttccatagt 360  
caacgctgac tnttatcctt cttttgggtc ttcccaaata ctatattcag gtgttgaacc 420  
cgttgatata c 431

<210> 28749

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28749

tgttntaatg tgttataaga accaatgctc ctatcaacag gcatattcca tgacccagc 60  
ccccaaacat cagagcanat aagtaaggga atataatagt tgggtaaaact ataggatttg 120  
cttcttggtg tcttgcaaca ctgccaagta aaagggctaa ttangaatct aatcagttgt 180  
catggattta ttatataccg agaagaaatg gatagtaagc tagataattt gtatccaccc 240  
tgganaaaca atgcactata aagcagtcct aaaatttact tcaagacatt taataattca 300  
tgttgctgct agtaaagtaa ctaaacactg tatgcatcac caatttcttg ataaggaatt 360  
gtgaaagtgt tggtcctaan atatgt 386

<210> 28750

<211> 242

<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 28750

agcttgcaga ttatcagngc ttatctaata tagtggtctc accctatacg cgtctatagc 60  
tattagctgg aatgtgagaa ttgctatctt ctattacttt gcttactctt tccatgcacg 120  
ggcgattcat gatgctctgc attgggtctt tgccatgtag cttttccagc tgctggatga 180  
gagaaaaaga acaaagtctt tgcgggtctt tgcaacaatt aatcagaaaa tccctctaca 240  
ta 242

<210> 28751

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28751

cttcattcag attgctctct attntctatc cgaaccttcc aatttaactt atgctaggac 60  
tagatttatt cattgattgt tgtcaaaaat aatttatttt ttacccaaat aaatttttat 120  
attaaaaatt aaaaacaatg tattttctac caataagcat ttcttatata aaatattaga 180  
aatcacttt caacctaata agaatttctt atataaaaga ttgtcttata taaaattaaa 240  
aataatccag aaagaaagat tataaagata catgaattta tataaaagac atacaactaa 300  
ttagatatat aattattttt aaaaaagagt tgaatgagtg caaatgtat ttgtattcaa 360  
gagctataac 370

<210> 28752

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28752

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gcttctgttt gttctatgtc atggctgaat tgtgggggag tgtggtgatt tcggtgctgt 120  
tttggggggt tgccaatcag gttgtttcat tgtttgaact ttgagcttac tttgttagtt 180  
ggtaatttgt ttctggcttt aattntgtta tagtatttgt tgggtgctgt atcatcttaa 240

cattnttttaa ttttggtatc tgaacatggc ttattgattt catcatcatg aatggctggt 300  
 gtttgntgga ttgtgtcact tttcagctat tcgttntggg catattcatt tgtatgctgc 360  
 tcctttctct atagcttagc cgcttagctt ttgatgagtc ccttatatgt tattatttct 420  
 tg 422

<210> 28753  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28753

ntgtgaagag caacgtaaga gtagtcaga tnttttgcta ttatcattca ttatcccaat 60  
 atctatccct aaattgtgaa gagggaagta actcacgtga gtctcactat tatagttgta 120  
 tatatagaat gtacataaaa agtcacacac ctacacagta acaatattgc actctcgta 180  
 gcatattaag ccacaatatc tcattgtctt attattatcc aattccttta actaactcat 240  
 gtcaatgac acatgtaccg acaaaatctt ttttgtgaag agtgatgtan gagtagtcca 300  
 aacattttgc tattaatatt cattatctca at 332

<210> 28754  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28754

agcttgtatg attatgngt acccatcaca tgttgtacta ggtggcggtc gggcgatggt 60  
 gcataacaag ttttcacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120  
 ctccaactga gtcacgtac tcccatatag cccatatact cgtttctctc aacaccggtt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240  
 gctatcacag ccaagcaaaa cagagcaaag gcagaaaact ctgctcaaca catcaaccaa 300  
 aatcacagct nttctcactt aaagaccaca gtaacaattc cttcgatcca attcgtaaac 360  
 cgttggtatcg actccaaaat tntactggaa gtctatagtg cataagccta cattgtgaac 420  
 cgtgggatct act 433

<210> 28755  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28755

tgacacctgt nccaattttt tattnttttg tcattntaga tgttcaattc ctactcctct 60  
 gcttgtgcca cgtgcttggt gcttaaacca gtntcattt tttgggtgtg ccacgttctt 120  
 tgatgggttaa agctttccgg tgggtatgtg ctacagcgac acatgttttg ctttttttca 180  
 ctgcagcaac acgtgntttt ctttttttct ccaaaattat attatctttc catttctctc 240  
 tttgcagtac acacgggaac ctggagaatt ctaaatacga aaaaaatcgg agttgagatt 300  
 ttttattgtc ttgcattttt tcacgtttct aaagttttac tcacttgtgg tgtgattcat 360  
 ggcaccttta tccacatc 378

<210> 28756  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 28756

tttcatgcaa gcttgaacct tgaaccttga atcttgattc ttgagtcttg aaatcaaattg 60  
 ttctcttgaa ccatgaagag ttcttgattc aatcttgaat atcttgaact catgtctttg 120  
 aatcttgaga tcatcatcta tggtatcatg aagtgttctt gacctttgag catattgtcg 180  
 tcacctgtgt tatcatccca acttcattga atcaatcttg attcatcatg aagcgttgat 240  
 ctacaatata ccaaactact gttagtaaat at 272

<210> 28757  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28757

tgggctcttg cctcactcac cgccttggtg aggtcattnc tatctatctt atacttatcc 60  
 caagtttcag aattgctaca cctagaccac tccttgaaac actcgctttt tactctaact 120

ctgctctgaa cattatcatt ccaccaccac gattctttac ccctaggtcc aaaacctcta 180  
gattcactca acgtctctgt agccacttta ataatctctt gggacatctt gttccacata 240

<210> 28758  
<211> 253  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28758

agcttgagtg tttacatggg tgcatgcaca atctgttttg cataattttc taaatcatcg 60  
ttnttatatg catgtcacgg aaataatgtg gggcattccc ttttatccct gaaccactgg 120  
ccaaagcaag taccctgaca cattgtttcc gccctacga atactacttg tttgtgtggg 180  
tgcgagatct atcgccaagt gcaccagatc gtcaagtaag taattaaac agaatgatcc 240  
gagtatcata ctc 253

<210> 28759  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28759

tctagccaaa tggacttacc ttgaattaat tcctttgata gcctctttga gccttgtttc 60  
cctttccttg ttgtgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120  
ccttaacgaa ttatggagct ctggaattgt tttgggaata agtgtggtgg ggttttgttt 180  
cattggataa catgttgtgt tggctatgct tcatgatgta ttgtgggcca tacttgatgt 240  
acattgtata ttggntacat gtccgacatg ctggaataga tgctgtttc 289

<210> 28760  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28760

agctntgcag atttggctctt cgccagtga taggtcgatg tgggtccgaa nagaggcaaa 60

tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggataag 120  
ggagaaaacc atgctgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180  
tatctttact cagccaataa caaaccttct ccttaccac caccaggtta tccacaaagg 240  
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300  
agcaciaaacc anaaacacca accaagaagt gaattntgca gcgagaaagc ctgtagaatt 360  
cacccaatt ccagtgtcct atgctgactn gctcccatat ctactngata attcaatg 418

<210> 28761  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28761

tattacaagt cagtggagaca acctcaaaga aggctgaatc taataatgaa agaagaagta 60  
agataggaag tgctcaagtt ggtagaggca gggctcattt acctaattctc ggatagttca 120  
tgggttagtc ttgttcaagt tggtccaaan aagggaggta tgacagtgat aaagaatgat 180  
agagatgagt taattcctac aagaatagtt actgngtgga ggatgcgtat tgattacagg 240  
aagctaaatg aagccactan ganagaccat tacctgctcc ccttcatgga ccanatgctt 300  
gagagacttg canggcaatc tttctactgt ttcttagatg gatactcann gctacatcaa 360  
attgcagtgg atcctcanga ccaagaanaa acatctttca catg 404

<210> 28762  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28762

agcttgcatt attgttggt ataantngcc tgtaccatta cgctcttaat gtcttttagag 60  
gttacttcct cgttgacatc ataagccagc caatagaaga agattttcaa gatctcttgt 120  
ttgaagcaat caattccata cctgaccccc aagaaaagaa ggtttttctg gacaaactca 180  
agaaaacatt agaggtaaaa cctagacaaa aggattttat cacaaacaac aaatctgatg 240  
taagtaacat actcaagaga gtggaanatt cttcaaccaa accaacgaca atccaagatc 300

tccaaacaga gatcaacaat ctagaaagat aggtaacaga atttcgtcaa caacaagata 360  
 ttcatcagat cattctttct cagctcgagg gagatagtga ttctgagagt gccacaaca 420  
 gtga 424

<210> 28763  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28763

tataagaaca naattgcctt aatcatttcc aaatatgcat gtgtattagg acgcatcaac 60  
 aagaatcaag ccaaggctat tgtgcaagca atcaatggng canaacatac caaatgatta 120  
 taatgatgga tggctcanat tctcacacag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtac agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattgc ccattttttt gaacatatcc tataattcag agaaaaacat 300  
 gcaaagtcac acgtgcacac gaaattgacc caaaatatta aactgataat cgcacgaaac 360  
 taacaacatt aacaaattaa cacaactaac aagataacaa aaccaacaaa actagcataa 420  
 ccaaagaaca ctctcccttc ccccatact taaaacacac a 461

<210> 28764  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28764

agcttgatg attatgggtg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatccgc tgttgccac 120  
 ctccaattga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180  
 ccccatcaat cctccaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240  
 gctatcacag ccaagcaaaa cagagcagag gcagaagact ttgccaaaac accaaccaaa 300  
 tcacagcttt tctcacttaa agacccagc aacaattcct tcgatccaat tcattaaccg 360  
 ttggatcgac tcgaanattt tactggaagt ctatagtaca tgaacctaca ttgtgaccgt 420

tgggatctac tatcanacat

440

<210> 28765  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28765

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tgttatgaat ntcagttatt tttggtgaaa aaacgtgttt ccgtgaagaa aatccaagcc 120  
gaggtgcctc cgtaacgctt ccaagacggt tccgtgggtg attccgtgaa gattnttcgt 180  
cgttcttcgt tcttcaaccc ggtagttttc gaatccgaga ctttcanttc atttcttggt 240  
ttggtggctt tcatcttcat ttcgtttact ttcggttggtc ttttctttcg tatttaacga 300  
gccttcaccg atncgttcaa gcogtatctc gcctaattaa tttgtaaaat gaaatttaac 360  
cgatcatttg tgttgatatc cgттаатсac tgttaaataa aacccaccga tcgtcacg 418

<210> 28766  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28766

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gtggatggca cctcctctca cctcttctca tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
gcaagcttcc atcacaagat accttggaca cgcattgtata tggcaaaata gctcacaaaa 240  
tatacgtagt tttaggtagc aaaatacctc acaaaaaaag agagagagca aaaagagagc 300  
gagcaagata agaataagaa aaaaataata ataacaagtt gtctagctaa naaacaacat 360  
gcttggtgaaa agagataatt tccaactatt ctttgaaaga atttactgat cttaacc 417

<210> 28767  
<211> 196  
<212> DNA  
<213> Glycine max

<400> 28767

cagcttagct acacacacct gtctaatagc tgagtgcacc tccttgagat gagaagctag 60  
atcttaccta cacaccccct ataatagcta agctcaccca tatgcgcaaa aacaagaaca 120  
tacaaaagat gtccctacta caaagaccac tctgaatgcc tcgacgtaca atgcgtaaac 180  
cctatactac ttaaata 196

<210> 28768

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28768

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cttctggatg aacttcctgg aaggcccaag tgggcctggt tgctatttgc accaccctgt 120  
nttataaata caccacctgc ctcttttgc tttctttttt ccgtaacggt acaaaacttt 180  
acgaattccg taacgatact tgttttcctt tcgtaatggt acggaacctt acagattacg 240  
taatcattcc ttttctggct ttcagaatga tacggaacct catggattgt gttacaatgc 300  
ttccttttga tttccggcat gttactggac tttcatggat cgtgcaacaa tgctc 355

<210> 28769

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28769

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ntatcagtaa taatagaacc tcaaagagaa ttgtgcttga tcctcaagag aaaacaacgc 120  
tgccgactta gcctttcatt aatcaaatag agaatgaaat tttattgata aactaaaagt 180  
ctaaactgga attgtaaaaa atgataaata gaagagagag agagagagag ctcaactaga 240  
accttggtgc tggatatata 259

<210> 28770

<211> 251

<212> DNA



<213> Glycine max

<400> 28770

tgcaacgcta tataagcgta tctgagacgg tctttttgga agattataca aggggtcaacg 60  
gtgacattct ctcctctgtc gccgaactcc tcggagaggg ctatggagag tgtggcaatg 120  
aggactgtga gaatggaaga gtatgttgct tcctttcttca tcaccatcat catcttcttc 180  
ttcgatagat agagactatg atgccagaga gaaataattc atcaaagccc accagattct 240  
ctctctcgtc t 251

<210> 28771

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28771

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atgctactct taaaacgaaa atggcataca acctcctcca ataaacacaa acatcaatgt 120  
aaatttagag caaactcatg cacatacttc cttacgaaca ttcactcgca caagatattc 180  
ttctaactaa aaaaatgcac ccatgcacaa tcaaggcacc ttcgttacct agatcactta 240  
tatgcacttc caaggtgtat ttgctaccta catcacatgc atttcctttg ctaaatttac 300  
atacatgcat actcaaggca ctntggctac caaaaattgc atacatgcac attcangtat 360  
ntctaatacc tatacataca caaacttcgt gatgaatctt ggctacctac acaataaggt 420  
gctacatttc a 431

<210> 28772

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28772

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aacaagtgtt tccacatcca caaatcgcgc ataaaccac catccnctgt tgcccacctc 120  
ccaactgagc tcacgtactc ctacgtagcc catatcctcg tttctctcaa caccgggtcc 180

ccatcaatcc tatcaagctt ccccaacatc caagtaaaac aacattcaaa cagcacanac 240  
tatcacagcc aagaaaacag agcagaggca gaaaactctg ccaaaacacc aaccaaaatc 300  
acaccttttc tcaacttaaag accccagtaa caattccttc gttccaattc gttaaccggt 360  
ggatcgactc caaaaattta ctggaagtct ctagtacata agcctacatt ttgaccattg 420  
gtatctact 429

<210> 28773  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 28773

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gactgtggat ggggttgcttt acgaataaga gccagaagg aggcattgct gcctctaggg 120  
aagctgccat gaatatggaa ttcattccaca aatctcctga attcagggtt caaaaccccc 180  
caaaattcct tattaataatt gaaattaaag ccattctggcc ctgagcattt gtctccacca 240  
caactccaaa caacatcttt aagctcttgg tctgaagaag gggcaatttt accctccctc 300  
tgctctgat caatcatagg gaaatatacc ccattccagag aaggctctgaa caatgtatct 360  
tcagtaaadc tatggagaga gaatttgaga acttcattct tgactaaatt atgctgggtga 420  
accatacac catc 434

<210> 28774  
<211> 245  
<212> DNA  
<213> Glycine max

<400> 28774

tattggatta tggagacccc gtcattatgtg gtactaggtg gcgacggggc gatggcacia 60  
atcaactctc ccacttccac aagtcaaaca taaacacacc atccccaatt gccaccttt 120  
aaattgagct cagcactcc tacgtagccc ttatccttgt tcctctcagc accgggtctc 180  
catcaacccc tccaagcttc cacaatatcc aaacaattct atttcattta tcatgagact 240  
accat 245

<210> 28775

<211> 401  
 <212> DNA  
 <213> Glycine max

<400> 28775

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agcttaaaca ttcaacttcg agcgtctcga tatattacgg gactcaatca gacatccgag 60
taaaaaatta ttgtggtttg aattgggtca tagattcaac tttcaatttc gagcgtatcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaactagttc 180
agagattcaa cattcaattt cgagcatctc gttatattac gggactcact cagacatccg 240
agtaaaaagt tattgtcgtg tgaattggaa aagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagattc aacattcaat ttcgagcgta tcgatatatt a 401
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<210> 28776  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28776

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ntgagccaac tcanacgata ataactntnt actcggatgt ctgattgagt cccgtaacat 60
atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgtaca tattgagacg ctcgaaattg aatgttgaac 180
ctctgagcaa attcagatga caataacttt ttactcggat gtctgattga gtcccgtaac 240
atatcgagac gtcgaaatt gaatgttgaa actctcagcc aatacaaacg accagtaact 300
tttactcgga tgtctgattg agtcccgtac atat 334
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<210> 28777  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28777

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tattaatatt tgaaattttg tatctgaagg actattgttt cttttaaaaa aattattact 120
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gtattaagaa attataataa tattcacctc cctttgtag aaaagaagtt attaaggaat 180  
 aaaacatgcc aaaattatga ggtgccaact tanaattgac gtttatattc caacaatttc 240  
 gtacaacagg tgcaagatgc aagaattctt aacaaaagaa tgcttctcct ttatattaca 300  
 gatctc 306

<210> 28778  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28778

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 aattgagctg tatattgaga agatagattg caactttnta gggaattaat aaataattct 180  
 gtagccattt tcatatgttc acacacaatt catgggtccc ttgtaaacat agttgttgct 240  
 ttgcaaata tctactgcta nacaaaagna ttactgcatg gggatggtat aatctctttt 300  
 attttatc 308

<210> 28779  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 28779

cacacagacc gcaaagttag ttttaccatg aaatgctact cttaacacaa atatggcata 60  
 caacctctc caataaacac aaacataaat gtatatttag agcaaactca tgcacatact 120  
 tccttacgaa cattcactct cacaatatat tactttaact aaaaagatgc accca 175

<210> 28780  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28780

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ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttggga aacttttatgc 120  
 aaaactgggtc atgcatgcac ctatgtggac actcaagtgt caaattttta tggatcatgtg 180  
 atgctagggc tcangattca tttcctctat tntagtcaac ccaacgtttc caaaatatgt 240  
 tcttttatca atttgtgcat tcatccgagt ccattttggg cgtctgggaa aatcttcaca 300  
 gcattcaccc ttcaggtgta tacacattnt ttcaaaaact agttatgatc agtgaaattt 360  
 ttcatagaaa gttggagtca tctctttcaa agcatgttgg t 401

<210> 28781  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28781

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 tgccattcct tggattatag gattgaacca agtcatgct tttacaaaaa ggttcatcaa 120  
 gtcaagttga aatacgggaag taaccgtctt gcanaattgt ggcaaaagat gaatcgagtc 180  
 acatcactgc ttcacttact gccaaacata tttaggattg ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaaagt gtcatggacc atgttgaana tctaaattga ttcaacccca 300  
 tattctgcgt aaaaatcgca atacttcaac ttacatcat 339

<210> 28782  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 28782

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 gcaatgtcgg ccagcggcac accggctgcc tgggcgcatg acgcagcggc cagcgcattg 120  
 cgcacgttgt ggcgccggc aatgtgcaag cgcaccgggg cctcgcccc gggagtgacc 180  
 aggggtgaact gccaggcatc gcccagccac agcgcacgcg gggcatggac ctgggcgcca 240  
 tctgcagact cgccgaacag catgcactgg cgcgcagcgg acagctcgcg ccacagcggc 300  
 gtgtatgtgt cgccggccgg gaacactgcc atgccatcgg cgggcagggg cagcatcacg 360  
 ctgccgttct cgcgcgccac ggtcttgagc gtgtgcataa ttctggtgc tcg 413

<210> 28783  
 <211> 115  
 <212> DNA  
 <213> Glycine max

<400> 28783

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 ctcgagtacc tcttttaggaa gctggggcaa attgccctgg tgaccctgct tcacc 115

<210> 28784  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28784

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 aaaaatgaac tgaacctcga acaaaaacca acagagcgac gcaanaagac agngcaacna 120  
 gaaacttcag actccagcca agacgcgaaa cccagggga gcaagacaac ccccgcanca 180  
 acacaaagna aggaaagcaa caccacacc cagcgccag aacgcaaac cagacaaagc 240  
 cgccacgagc aagagaancc aaaccgaaaa gagcagcgcc acaagagaaa acgcacagca 300  
 gaaaccaagc acaccaagcg acgacanccc caagcaacaa ggccagcnca acaggacgcg 360  
 accnaaccac cngcaccaaa cacacgcagg caaaccagg aacaaccaac aggagagaaa 420  
 cccagcgaag ccacaacaaa agaccatacg cggaagacc ancaccgagc caaccccaca 480  
 acacaaggca acgcgccacc agcagcaaga caaacg 516

<210> 28785  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28785

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 cgagacacga caacaccaca caaccncaat gaaacttgag acctgacacn cccgagaacc 120  
 ananaaannc aancnngaga aaccncgcna acnngcaggg aaaggtcaag agttgaaatg 180

agngcggcgc accgagacgg acgagaaaga gaccaccccc gccgcacca accagaagaa 240  
 cgagatggcg gtgcaaccaa gccacgatcg agtggagacg aagcaccag agggagcccc 300  
 ggagaccgc gaaggcaaca cgaggcgcca ataacagagc acgagccgaa acacggctac 360  
 gccacgggag caccagagg aaccacgcg aacgcgacag cgcacggagg aacggatacc 420  
 acccagcca acaccagaac atcgagagga gccagcaca gagagcgagg caacgnncgc 480  
 cgaggaagac cccagagagg atctcgagga gcaaccaccg gagccagccg cggaacaccc 540  
 tgaccacaca gaagaagacg agcg 564

<210> 28786  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28786

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 gcgtggtgag ctagctttat atgttcttcc cagagcagta gattcattgt ggtatatctt 120  
 ggtgaacagg caccttcttc caaatatcag gaatgctgag gtatgccctc tagttacttt 180  
 gcactgaatt aaaggaaaact cttttctgat ctgtttttct agcatcctcc aaaaataatt 240  
 ttctagaact ctagtgacaa ccataatttg ctatgaaatg aaagtcagct tttattgttg 300  
 atacctcttt tgatgtttnt aagttccaat atctatccgt gcagttagag aatgtgagaa 360  
 ttttcttaaa agggaattaa gaacagtatc tctcaccatg tctcaaagg cagtatgctt 420  
 gtcttttg 427

<210> 28787  
 <211> 284  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28787

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 tctccatgga ggaaaatcac ccattaagga cctcattgct gccaaagatc cagcctccat 120  
 agaagcccca cggggcgctt acatcactgg ctctgaggat cgacgatgga ccaacacagc 180

gactatcatg gaaagcgggt ccattggttaa aggtgacctg cggacgcaca tctggataat 240  
atggcacgta ggaattaaag agtcctatgc cagccgccta tcca 284

<210> 28788  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28788

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taagagtagt gtcccaactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120  
ccccgaggaa gcttgcctca aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt 180  
ccgctccgga gtatgatagt caccgcttta ggagtgtgt acaccagcag cgcttcgagg 240  
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata 300  
ctgatttcca ggaggaaata gggcgccggc ggtgggcatc actggttact cccatggcca 360  
agtttgatcc agaaatagtc cttgagttnt atgccaatgc tttgccaaca g 411

<210> 28789  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28789

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atggcacctc ctctcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120  
accattaaag gacctcattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180  
gcttccatca ctgcctttga ggatcgagga tagacgaaca aagcacctaa gaaggaagga 240  
ggttccattg gtcaaggtga cctgnggagg tacatcagga gaagatgcca cgtgggaatt 300  
agagagtcag atgcaagccg cctatccatc cttgtttgag tcaggtaaatt ttcggggacg 360  
aaattttctaa aagggttagga gagttgtaac accctgagat attataagtt atatatcgat 420  
gttttaa 426



<210> 28790  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 28790

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 ccatctttctc aactaaatct ctggcttcag caggggccat gtctccaagg gctccaccac 120  
 tagcagcatc gatcatactt ctctccatgt tactgagacc ttcataaaaa tattggagaa 180  
 gaagctgctc agaaatctgg tagtgagggc aactggcaca caatatcttg aatcttacc 240  
 aatactcata catgctttct ccaccaagat gctgatgcc tgaaatgact attctgatgg 300  
 cagcggctct ggaagcaggg aaaagttttt ctaagaatac tctcttgagg tcatcccagc 360  
 tcgtgatg 368

<210> 28791  
 <211> 572  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28791

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 ctgaccntc caacaacaca accgcagaa aaatttgaga cttgacgacc tcgcaacacc 120  
 gngacaactn aaganacacc gcttagagca ggcaagaaga caacaaccag cgcgaaatac 180  
 ctcttcataa cggagccacc accaatgctg aggccgtcaa aaaaacaccc tccgaacata 240  
 cgagcccttc atgaccatga agggctaaac aacccttggg tgaggagcgt accactaaac 300  
 tctcgtgatg gaaaaacccg aacaatctat acaatgttag agctaggacc accgcgcctt 360  
 ccggtgtgta tatatatgta cttgaggtga tcatccacct atatggcatg gtagggctta 420  
 agcactgcc aagaggcgaa atccttagaa cctgaaagag catccaaaat gatccagtgc 480  
 taagggaaat gtgcgtact gtgacacgct aagcgggcag gagctcgcta atcgagagta 540  
 cagaccaatc ccagccgcag aacacgctaa cn 572

<210> 28792  
 <211> 438  
 <212> DNA

<213> Glycine max

<400> 28792

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agagaggcgc gctggaagtt tctggagaaa gagagagaag atttggcttt tagaatgggt 120  
tttcttttct ttctcatttt ctttctaaaa gcaaattccac atgtcatttg ttaattggag 180  
cacaaagggg ccacctttac ctttgacttg accgcgtact caaccctcac acaagaagaa 240  
aattggacct tttcggacgc tgaaatccta cctcggattg cgtgttgccct ctccggttgc 300  
atttgttcgc gtttctctac acccgctccag gcccatcttc agaggtaggc agtatataca 360  
tatgtatatg tatatagata tatatatata tacatactct catctatata tatatgtcaa 420  
gacgctcaca atgagacc 438

<210> 28793

<211> 271

<212> DNA

<213> Glycine max

<400> 28793

tgctcaagga tcgtagtgcg attggggcgcc attgagtgtg ttatgctcaa atctgggccc 60  
ttctgggaga gggtgggtgt tgtctggcct gtgcctcttg ttcgacttgt gtgaatcggt 120  
cttgggtgctt ccttctcgtt tgctcgcgtt ctgtctgggt tggttgactt tgatcttgaa 180  
tctagacatt tcctctatct agatgaacct tttgcccggg catggcattc cgtcctgctc 240  
ctatggggttt tttgccaac tggcttcaac c 271

<210> 28794

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28794

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atgcaatgtg gcgaatgcaa tacacataag atacatccgg tccaatccac ccaactcggt 120  
ttgattgcaa agctgctagt aaagtgggtc acctgtctaa tataatacat aaatttggtt 180  
aaagtgtaac atatctctc aaataatgca agaaccacat ccaaacttct ttgatctcgc 240

tctcaacaat tgcaaaagaa agtggaaaat tatttctact accatcttgt ctaatggcag 300  
tcaacaaagt accataatat tttccagtta aaaatgtccc atctgcttgc tcaattggct 360  
tgcaatattg aaagccttca atgcatagct tanaagccca aaatacacga ttaagaatca 420  
cct 423

<210> 28795  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28795

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tccttatccc ttcacttttt acatcctttg tacatttgag cccttcatga ccatgaaggg 120  
ctaaacaacc cttgggtgag gagctttcca ctaaactctc ttgatgtaaa aactcttact 180  
atctatttaa tgttattgct agtttcattg ttccttcctg tgtttattta tatgtacttg 240  
gtttgatcat ccatttatat gttatgtag ggtttaagca ttgtaaaata tggtaaattcc 300  
ttagaacttg aaagagcatc taaaatgatt cattgctagg gataatgtgc gctactttgt 360  
ctcgtaagc gggcaggtgc ttgctaactg aaagttatag accaatccca gctgtagaac 420  
tcgctaa 427

<210> 28796  
<211> 420  
<212> DNA  
<213> Glycine max  
<400> 28796

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cgagacatct tgccaaacaa agtcagggtta gcgataactc gcctgtgctt tttcttccat 120  
gctatatgta gcaaagtcac tgattcagtc aagtttgatg agttggaaaa tgaggccaca 180  
attatactgt gccagttgga gatgtatttt cccctgctt tctttgacat catgattcac 240  
ttgattatgc atctggtcag agaaatcaaa tgttggtggtc ctgtttatct acgatggatg 300  
taccgggttg agcaatacat gaagatctta aaagggtata caaagaatct atatcgtcta 360

gaagcatcat ggcagaacaa gctagacatg tatttttacgt gcaagaccct tgtgatgaaa 420

<210> 28797  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 28797

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ggctcatttt accaaaacag agcttaaaga aagataagat tgagattata gatatacatg 120  
gaatatcata ggatttggtta ctactgtggt ctaattatct taatagatat acaaataagg 180  
tgctttctct agcacacttt caattcatat tcaatagttc ccaatggtaa cccaaacaag 240  
aacttaatct tccatatatg cacaagcatt aaaggagaaa agaactctgaa agttcattaa 300  
agtaatttgt cggttcagatt gtgaaaggag aaagaagggt acaccttcca ctctcttttg 360  
gctttataga ttataaaaca gtgaaatggt cacttgctta agcaaaacag atcttatt 418

<210> 28798  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28798

acactataaa actaagctga tcaaaaaaat caatattaaa tccattaatt ttacattngc 60  
tcaatcaatt cattcacaaa cacttatttc atacaaaaca accactgaat caaattcaac 120  
caattcactg ttcaaacaag ctttttgtac aagcactcaa caacactaaa ataactggaa 180  
tttcaaaaga ctggaatttt aatgaataaa acataaataa attaaataac tgataaacta 240  
aattgttcat aatttgtaga aattaaatca aaatagaatt taaacatcct gctcatcccg 300  
tggttgatct tcattcatat ccaatactgg agctactgat gaatcctgaa tgggtgggctc 360  
aggctccaaa attggtactg atggcaagggt ctctcanga gctggtgcaa gggatggctn 420  
tggcatggga tttg 434

<210> 28799  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 28799

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ctctacgaag cacgaaaccc tccaaattca ccggtgggca tgtctaagca tatcagagta 120

cagttggaat tctgaaagac atttagatta ctttaatgac ctaaggattg ctttcaattc 180

ataaatatta actttgacta tataacaggc atctaactga acaagtatgc gacgggaatt 240

tgataaatgg attctgaccc agtcattcaa ggtctgggca atcgcgctgt actgaagtac 300

atatgagtga tcacagttca aatggagtta ttt 333

<210> 28800

<211> 431

<212> DNA

<213> Glycine max

<400> 28800

actcagcttt gaaacaaaact gccctggatt cgattactat ttattaaaact ctcttgtaaa 60

agcttttggt aaaacttcat gtgctactca atgttttgaa aaacttttta gtacttatct 120

tgattgagtc tttttcttga ttcttgagtc ttgaatcttg atcttgatta ttcttgattc 180

ttgattcttg acaacttgaa acttgaaact tctcttgaat ctttctcttg attcttgaat 240

tgttcttgac tcaatcttga aatcattctc ttgggctttt tgtcatcatc ttgtttatca 300

tcaaaacacc ttgaatcaat cttgattcat catcatgaag gaatgaagct tgtttctaca 360

tttaagacaa tacatgctga gccataccac ctggctgata tccaagatgg acccggtcaa 420

gtacatcttt g 431

<210> 28801

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28801

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gttgctagcg aanaacctct tttttctcac aaaacaaact ggaaagatat agactgcata 120

ctctcctatt ccttgatgata tgataacata tctctcact taaagaagta tcgttatgct 180

acctttaatc actttaataa taacacttgg tggaaggaaa aaagacaaat gctgtcatat 240  
 attaaataaa acacaaatat tcctatacac acaatgtatc gatacccaga tatagacaag 300  
 aatcattata acctaccatt agcgttccat tacgcggacc attgttgccc tactcattga 360  
 ttgagcttaa tgtccaacaa gaataaaagg gtgaagccat atatggacaa ctagtctacc 420  
 aattgctgta atcacccaag cgactttgac gtcgg 455

<210> 28802  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28802

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 acagagagtt ttacatttcn attcntacca aggcggacaa agagagaaag gatcgctcac 120  
 accacgccta catatggaac gaaaagagaa tgcgatagtg agcgaaacga taaagcttga 180  
 agaatgactc aacactgtgg agacgacata tctaactat gcacaacgag gattagctaa 240  
 tgaagggacc cactattgta tgatcaagct caagaggcct aactaagtg tgcgtaggag 300  
 tacagtggca ggaccatgag atacacgcac ntaccgtaac tatagtaccg cgacgcccg 360  
 gtgagccagc cacagcgagc cgaaaacata cggtggaaca aaagccaacc tgaatcgtgc 420  
 tgcccacaca ttgacttata ctacaccccc gccagactca atccccg 466

<210> 28803  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28803

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 gcatgcatcg gaaatcgata aatcgtctag ctgcattaca aggtcaatat tggacaagtg 180  
 atcattgcat acccataata atacttgaat gcgtgccgta tcacgacttg tgcatttgac 240  
 atgcattatt atggagtggg ggattcaaca tgatgacatt aatgcgtcaa accacatcat 300

ttgtgttttaa tgacattntg gaagggtgag ctctctactg caatatacaa tgaatcgaac 360  
 cccatataat atgagatact atattgtaga tgacgtttat cctgat 406

<210> 28804  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 28804

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 agcaacagag ttgccaatc gttcttccaa atttttcaac atttggtaca agagtgaata 120  
 atatgttgga aaagaagagt gaaaaaccaa agatcatgca tgattgtatg ttaagcaatg 180  
 aaaaaaagtt ggtgggggaa gtgagtatgg caaacacaac agcgggtgtg tgataatcga 240  
 tctagtgttg atctttatag attttatttt ctgaattggc ttgatcctct gctctagaac 300  
 agaactgtgt gacatttact tagactaaca ggctacatct tcattgtgcc gataacacgt 360  
 gatggatcag tttcgtgaac ctcaacagaa gccagttcat ttgccattat gtctgctggg 420  
 aa 422

<210> 28805  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 28805

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 acgggagaat gaccatcttg actcatagta attaatacac aaactctcta tacacacttg 180  
 aatgcacac gcctctatca agcaaaaaca ttctgggcct cctagtcgca tatccatgaa 240  
 cgaggccaac agcttgcata actcaccgac cttgaccttg atagaccgac acgtgatact 300  
 acgattaata cccttcatgg tgatccacac gaactggctg atagccgaca agga 354

<210> 28806  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28806

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 atgagagaag tccttcccc atcttctact atgaatatta ttngngatgaa aattatattt 120  
 ctgataaaact agtcaagggt ccccatgggt tagctaaagc agtatcaagt tttaacattt 180  
 tcaattagtt gattgaaact ttgtaatcag ccatagcaac cgtgagtcg tgatttccca 240  
 taatttcaca gtgatactgc aaacatttta gaaacctaat ctctatctaa tcttactgta 300  
 gttaatccat atctgtgggt atttgaaact ttttaagtat gcacttttga aatctccttt 360  
 tacactataa ttagttggat gaatatattt ttgcccctct tcaacaaatt acaaacactc 420  
 ttcac 426

<210> 28807  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 28807  
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 ctggaaggcc cgcttggtat aacacgagct cagccacagt tttgaggggc ttaataaggc 120  
 agcaataacg agctcatgct ccgaagaggc gaaaagaatg atcacggggt acatgcatga 180  
 tcttcacgga ct 192

<210> 28808  
 <211> 563  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28808

acacacacac tctacanctc nactccacaa gggaaatggt agatataacg tcaacgaaac 60  
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 aganaccggn ngaaaaatcaa acacgcacgc tgggcatagg acgacaagac aagactgagc 180  
 ctttttgcct ttatagnacg acaagagagg gaaggtggac ataaactcac caactgacgg 240  
 agacttccgt actaaaagga acaatattgc gcgacataga aggggagacc atgagatgct 300



gcagatgagc tagaagagcg ccacatatgg atggtggacg caacaagtta ggaacaacca 360  
tagaacggct agagaaacct caaccgggat gattcccaga cgggtgtaaaa cccagcaacg 420  
accagtaa atgcaaggga accaatcgaa gcaaaaatac gcaggctaac agtatcactc 480  
tgtgtggtgc gcagaggaga gctggataga gctaccatcg catgagacgc aggactagg 540  
cacatcaatg cgggcacaaa gac 563

<210> 28809  
<211> 207  
<212> DNA  
<213> Glycine max

<400> 28809

acacgctaag cgcacccctt gcgctaaacg ccatttactt cacacactaa gcaagctggt 60  
gttcgcgcta cacaccttga cccgtgctca ttggttgc atggacgacta atcgagtgcc 120  
tcacgctaaa cccgaaaacc tgtgcggaat ataactcctt taaataggtc ataccgcgaa 180  
tgcgcgataa gaaccattgc ttctctg 207

<210> 28810  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 28810

tctaaacttt atacaagaat gaagctctga taccacttgt tagacttttg gcctcagata 60  
tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120  
tcactctctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180  
taagacaatt tgaatatgaa tatcaagcaa taataaacia aggagataaa gggaaaagaa 240  
agtccaaact caaattatta ctggttcggc ccaccttggg gcttcgtcca gtccccaacc 300  
aaccggttg aaagtccac tatctggtaa attcctttta caagtcttaa ccacataagg 360  
acaatccttc cttgggggtta aaaattcctt aacaccagaa aac 403

<210> 28811  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 28811

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tcttcggagg cagtaccgtc gctatcctcg gcgccgtctt tcaactgtgac ggcgacatcg 60
ccgacttggg ccgcggcggc ggcgaggagc ctgacggtgg ggtcgagggg tggaggcggc 120
ggcgcgcacg agacggtggc ggtggatcgg cgaggcgagt actcagcgct gtgccgatgg 180
acggtgcaca atttccctcg gataaaggct agggcacttt ggagcaagta ctttgaggta 240
ggcggttacg attgtcgggt gctaataac cccacgggtg actcacaggc gctgccaggt 300
tacatctcca ttacctcca aatcatggac cccgcgggca cctcttctc caaatgggac 360
tgtttcgcca gctatcgctt ggcaatcgtc aacctcgccg acgattccaa aaccatccac 420
cgcgattcc 429
```

<210> 28812

<211> 300

<212> DNA

<213> Glycine max

<400> 28812

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tatgagcaca catcgcccat actcactctc cccatgaata atgaccttca agaagaggac 60
gaaaagatgg gcacaggctt ttggatagaa cgaagactgc aatatcgtag ggtttgaaga 120
acactatgac acctgaaagt gtcgctctca ctctacgct tctactgtac acacaccaac 180
cctatgtgtc atgacccatc agtcaatcca tgcattgtct gacacgctaa gctcactct 240
ctcacttagt acacatgtaa tcaagtccac cagcacattc gagactgaat ggtatacgct 300
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<210> 28813

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28813

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tggagggggt aatgggggacc cgggtgctgat aggaacgatg ttnatgtctg catatgagta 60
cgtgagctca gttgaagggt ggcaactggg gatgggtgggt tcatgtttga tttgtggaag 120
tgggagattt gatttgagcc atcgcccgat agccacctag taccacatat gacgggtacc 180
ccataatcca acaagcttga tgtgagaaag cgtggaagag tcagtcttcc tacttttgtt 240
tggtgaccac agagtggtag ctggagatat gtcacgggga tcaggagacc ttggggacgt 300
```

caggtggggt gctattgccc aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag 360  
 tcagtcagtg agaacctgtg atgtacctaa acaggcgatc tcctggcagt caaccaataa 420  
 aagaacaaag tcca 434

<210> 28814  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 28814

aactcaagct tcaagaaaaa gatggcctcg caaatcctt atttcctgta ggaattcttc 60  
 tataggctct tatgttcaat ggtgaggggt atcattattg gaaaaccga atgcagatct 120  
 ttatagaagc catagatcta aagatatggg aagccattga atttgattcc ttattccta 180  
 caatggtaga gagaaatgca actatataaa aaaaaactag agaagaaaga agatgatgat 240  
 gaaagaagaa agaagaagat tcctctttag ccccaaatg ctaagtgcga tcaacttggg 300  
 cacatgagat tcaattgtcc tgtgtttaa agaagaatgg aataatccga caagatgaat 360  
 ttcaaagaga agaaagaaaa gaaaggatat atcacttggg aagataatgt cataaattat 420  
 tcaagtgatt cagaga 436

<210> 28815  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28815

cccccccca cgaccgggaa atagaaaaca cagcacaaaa acacacaaaa aaaaagaaat 60  
 gaactgagcc tgaaacggaa cnaaccnaac ngacagagca acccgacacc gatgtacaca 120  
 ttttgggctg gaggcnaag aaagggggcg cggcggaaga caggccaaac cactacccca 180  
 agaaagaacc atagcacccg ccactgcga agagaagcca cgaacacgaa caccttaaat 240  
 aggacaccaa atcacacaaa gggaatacga ggacaaggcg aagccgaaca aggagacgca 300  
 gggaaaagaa cgggacaaca cagagttaa cacgggccga cacaccctcg agccaacggc 360  
 cagtaccga gcagcccaca gtgagagctg cgccatcagg ccaatggcaa ggacacgctc 420

taaaccacaag aggacaaaac tagcttggcg cgtagaaacc ggaacaacaa gagacacacg 480  
gactcgacc ccttaggaat gaggan 506

<210> 28816  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 28816  
agcccagcca ccatttttcg gtaagaactt atcactacgc ctaaatcaac gatgtgcttg 60  
agctgtatgt caccttgtag ctatgacgct catctgccaa ccaactcatc atccttgta 120  
tcataacggc aatgggtgtca ctgaggctat tgcacgacaa tagtttatct tgtaagcttt 180  
gcagagcacg aattgtatat ctaccgagca tatttatcca cattggcatt agcctgacca 240  
cattccagag cat 253

<210> 28817  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28817  
tatcactcca agggtcagct atgaagattc atgggatggt attaaaaacc ttctatgagc 60  
acaatcacca aaactcactc tcccaatgaa taatgtcctt cgagaagaag aggaaaagat 120  
aagccaaggt ttttgagaa agtgaaatct ggaatatctt atgggttaga gtagtttatg 180  
acacttgaaa gtctccctct cacacctagg cttctactat acacacaaca acccttcctc 240  
tcataaccca aaagtcaatc catttaagct caaacacact aaaactcact aactcacata 300  
aaacacatat aatccagtca acaagcacat taattaatta attttaaaca cttaattaaa 360  
tttaatttat cttgttatta aattaaatca cttataccac aattaataat taatctcgac 420  
attacat 427

<210> 28818  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28818

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gctataaatt cttattgaaa tttgaaacat ctaccctttt accaaataaa aaagaataaa 120  
attcaattgt atttggggct atgtgttttg ttttgattat tgtttctgga aattacactc 180  
attttgaaaa aattgtaacg tacaaaattt atagcttgct ctgaacttgt aacagctact 240  
ttggcaccca tgtttcacat gcttggtttt tttgtatttt gtacgcttga gctgtatacc 300  
ttgtgagatc aaaataacat gtcactctct acttattctt tctattatta aatattgctt 360  
ataattatgg cacgagaaat tcttagtgct gaatcttcaa ttcgcaggag gagtgccttg 420  
agagact 427

<210> 28819  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28819

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taccttccta gcacagtgtc caagtttttc tctgttgct ggttggtgat cctcattctc 120  
actctcactc tcagctaaaa ggcgcttagc agtgccagaa atatcagaga aagagaaaaa 180  
agtctgaaaa tgtgatgtgg cttttgttaa ttcttccttt ccattatcct ttagactgca 240  
aggaagcata tgggtgagtcc aaccactgg aacacaaatt ctgattatcc cattttgtgt 300  
tattgtcagt agcagagaaa taaagcccaa tagcatcaac tctgaaacga agacagaaaa 360  
cagaaaagga aaaaaatatt gcgaaattaa tcacatccca attntcataa cagaagtccc 420  
t 421

<210> 28820  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 28820

tttgtaaggg atgtgaacga gatattgtgg gatatatatt tgggaaggcc aaacaataac 60  
gacatcaatc gtctactaca aattagagag acatatgggt tgacaggtat gtttgattct 120  
attgattgca tgcacggaa attgaaaaat tgtctagttg cattacaagg tcaatattgt 180

agaagtgatc attgcaaacc catagtaata cttgaaggcg tcccgtaca agacttgtgg 240  
 atttgacatg cattattatg gagttgtgga ttcaaagatg gacattaatg tgttaaacca 300  
 atcatttgtg tttaatgaca ttttgggaagg ttgagctctc tagtgcaatt tacaattaat 360  
 gtaaccccat ataatatgag atactatatt gtagatgacg tttatcctga tttggatact 420  
 tt 422

<210> 28821  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 28821

taaaacttgt ttgcattctc ttgaattcac gattgtcatc atcaaaaagg gaaagaatgt 60  
 ggaagcaatg ccctocaagg gtattttgat gatgccaag aatcaagagt taatccaatt 120  
 tcaaagattc aagaatcaag tttcaataat ccagattcta gattcaagaa tcaagcttca 180  
 agaatcaaga ttcacggatt atccagatca agattcaaga ctccagattt aagaatcaag 240  
 agaagactta atcaacatat agccttaaaa agttttttcac aaccttgagt agcacaagat 300  
 attttcacca aatcattacc aaagagttta ctctctggta tcaatta 347

<210> 28822  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28822

gcgcgggtct gggagacaaa ggtcaagtgg tctttatatg ctaagatgat gttccgagta 60  
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120  
 aacgccccgg catttacgca atgagcataa tgtaaacctt tacggttttt aaaagctcta 180  
 tagttggggc taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg 240  
 aatttcta atcaggagacct ttcttcatct gttcctgcgt ctctacccat tctcattcat 300  
 ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcctc cgaagggtact 360  
 aatacctgng acccgcttat cgacttcgag caagatatga atcacacgga agatgaagga 420

aatg

424

<210> 28823  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28823

atgaacttga tacttttgan cnttgaaana nctcgganag aancacncca ganagngtna 60  
gggaccacca caattttcat tttcaaatgn atgacgagcc gacgagacca acggtgtact 120  
aatcgcccaa aaaccacatc ancnttatct aaaacagtat atatttagcc gctcatctta 180  
agagggtttt taaaggaggt gtaaaaacat actatcatgg tgcccatcac acatgagacc 240  
actaagagaa cctcacacta tctagaaaaa cgcttcaagt caagattacc tataacataa 300  
ctactaaaga tacgattgag agcttgttct actccgaatc cttgaagagg attctcaaga 360  
tatcgctcca ataaaagcgt tcctctccat gcgatggtct gggtgcaatc aaccacagct 420  
cgctgcgggc actgategtc atgaaactag gacgacgacg tctctatccg 470

<210> 28824  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 28824

tatatcgaga cgctcgaaag ttacaaccga gactagtagc aaactcaaac gaccataaca 60  
tatacctcgg agagacgatt ggggtcccgcc atatatcgag acgatcgaaa ttttaagaccg 120  
aagctcgtag cacatacgaa cgacaataac attgcactct gaagaccgaa tgagtccggt 180  
agtatatcga gacgctcgaa atgtaaaact gaagcctgta gcagattcga acgacaataa 240  
cagtagctc gggagtccga acgagtgcac ggatatatcg agacgctcga aatttacaac 300  
cgaagctcgt gcgaattcaa ccacaaaaca ttcactcgga tgtcgattga gtccgtatat 360

a 361

<210> 28825  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 28825

ttttgggttc tactacaaat ttacgtcatt ttaaaattcc gaccgcgcca atgtgaccaa 60  
ggtttagcga acgtcacaaa aataacatca attttatata aaaaaatatt tttttaacgt 120  
ctcattttca aggggtttttc aaaggaggatg taaaaacatc ctatcatggg acccaaaaca 180  
caagagacca ctaagagaag ctcaaactaa ctaggagaaa ggcatataag tcaagattac 240  
ctaaaaaaaa actacgaaag aaaggattga gagcttggtc tccaccgaat tcttgagggtg 300  
gattctaagg atctcgttcc gattaaagtg ttctctcca tgcgatgggc tggtgccaag 360  
caacgacagc tcgtgggtggc cactgggtggg catgagtggg gga 403

<210> 28826

<211> 348

<212> DNA

<213> Glycine max

<400> 28826

ctaagcttct actttattgg gattagaact ttttgggttct tttatgggaa gtgctcaata 60  
tggggcattt gcgcgtttct ggcttgattg ggtggattgg gggtgatggg atggccctac 120  
gcctataatg attttgaaca tggggcatgc cacattgtcc cgtctcttgc tattgatgcc 180  
taacgcgcgc ccaccagggt cgggaaatgc ctaatggcat tacgtggact tgtaagggaac 240  
aaccatggg gctttgggtg acatatttca tttttggaca tgtatcttcc caaaagctaa 300  
atattgctcc atattctatg ctagaccaag tttatcaaaa acacaaga 348

<210> 28827

<211> 268

<212> DNA

<213> Glycine max

<400> 28827

gacgactggc ttaacgtatt tactctcgga accttttcgg aacgcagctg agctcggata 60  
atatacttgg gactaatatt ccatatttac cgtaacagag acaaaagagt cctaggcgcg 120  
atcaccatat tctctcatat acaagccctt atgtatatgg aactacgcg gcagatatag 180  
gtaacaagat tcaccctga cacaagagg ggccatactt cagctcctat ctacatacct 240  
tttatctgtg ctaggatgag atgctaaa 268



<210> 28828  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28828

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accgccgcca acacnatagc atngaaaaaa cagtgaacat gcacaggcac gcgaaccgat   60
gaacaaacca caaaaagaga aanattgaaa ccttgaactg cagacccttg caaaccgnga  120
actanagaaa acncaagcgn ctaccaaaga gcccagcagc gattggcgaa acgagacata  180
ggaccaccac gccagaaggg ggagagggac cactgaaggc aaaccccgat gccgaatttc  240
ccagctgcga tacactgaag agaccatgcc accaccccgga ttagcaaccg acacaaacac  300
cggaggaaaa agaggaccaa cacaaaaatg gacaaaaccg aggccttaga cgacaggaag  360
cactcgactg cacaagacag agaggacgga gtacgagaac accacagaaa aggagccgaa  420
gaacgaaact ggaggagacc gagccaccac agaagacggc agacgacgag gaggtgagaa  480
accacgacaa gaaggacagt gtgcggaaac cacgaaaaga accacgcagg gagcaaccag  540
gacaggagac aaaac                                                    555
```

<210> 28829  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28829

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tgccacccaa ctcgccagg cgagcaaggg tgcttccttc ataagcaaca gccttctgga   60
ggaatcttct ggagggccca agtgggcctg gttgctatct gcaccccat ttttctaat  120
acacccctg cctttttttg gtgattcttt tttcgtaaag ttacggaaac ttatgaattt  180
cgtaacgata cttgttttct tctgtaatg tcacggaacc ttgcggatta cataatcatc  240
ccttttttga cttacggaat gttacgaaac ctactaatt gtgcaacgat gcttctcttt  300
gatttccggt gtgtcacgga accttacgaa ttgtgcatca atattttctt ttgatttccg  360
gcacgtcacg aaatttcaca aattgcctaa tgatgggtgt caagcacctc anaatgac   418
```

<210> 28830  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28830

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 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tttaaatatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420  
 ngataaatgc actaac 436

<210> 28831  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28831

tcagaccaca acaacacana atctaggtat ccaaaaccct tcaattttat ggattttcaa 60  
 ggtttgagaa gtgaaattga gaatgaggta aatttgagc aaactctcac ctcacacaag 120  
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180  
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc actttggtca 240  
 tttgtttttc tctcttgtag agcccaagct ttctcataag tcctaaatga catttcaagc 300  
 taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360  
 caaaacctca ctctttttcc actcataaca ccatattctc actttctaac cctaggttaa 420  
 ctctaccctt ctcttc 436

<210> 28832  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 28832

cttaccggtt gaagactgaa gaaaatttta cttttgatga atctcgaaga acggtcgaga 60

atcttcgCGT aattactcac ggaaacgtta cggaagcgcc tcggcttgga tcatcttcat 120

ggaactaatt ttcttcagca atttcgagag agagagaagt gcctaagggg ttgaaccctt 180

ttctttcttca cttctccccc tatttatagc gaaatagggg ttgtatatcc tcaaataata 240

atccccggac aaaattaggg tatgacagtt gcccctcttt acttacctct catcgagat 300

aagaggaaag caaagataag acactgattt cgtccgtcct gcccttatcc gtgatgacga 360

ctctcgtcta tactccttct tttgttcttc tgcaccaaac 400

<210> 28833

<211> 386

<212> DNA

<213> Glycine max

<400> 28833

cgcttcacaa tctccaagct tttgatgatg tttacttttg tggatcatgaa acgcacacac 60

acacactttt tcctatgacg atcactcaca tacatactca ttcttcccat ttgtttttga 120

atttatgctt ctcttgcaat tacggtgatt actcatgtga gttcttgatt taatccctat 180

atctctcccc ctttggcatc aacataaagc cggagtgcac aacacgtttg aatcatgcaa 240

atacatctaa gcatgcacac aatatttatg aaatatataa tgcaaatacat gactcaggaa 300

ccatgactct atgaccacga agagatcaaa tatagaatcc gcatagctaa ataacataac 360

taatatttat tcaaacatac catgca 386

<210> 28834

<211> 88

<212> DNA

<213> Glycine max

<400> 28834

gatgggtggg ccaagacgga tatcaacgat gacgatgatt ccaagttgtc taacatgaag 60

attgatgcat ttgttgaagt tcatgaga 88

<210> 28835

<211> 365

<212> DNA  
<213> Glycine max

<400> 28835

taacagcttt acccatctac ttgtcgcctt ttttcagaat ccctaaaaaa gcggtgtata 60  
agatagtctc tattcaaaga aactttcttt acaaaaaacct tgactaatat caagcatctt 120  
ataaacttcta aggagttatt tactttcaaa aaagcaaaat taattaacag atacgaacct 180  
tcaactatac agactattga ggctcttaat cagatagcaa agaatgagga aatcgatcta 240  
tccgcccaatt ttgttgcaaa aatagctaca aattctaagc agaacctcaa aaaagcaatc 300  
atggctcttg aagcatgcaa tgcacacaag taaacttctg actgacaaca tatttatttt 360  
aacat 365

<210> 28836  
<211> 58  
<212> DNA  
<213> Glycine max

<400> 28836

accgtcgttg ttctctattg aacacccaca ccgagaggaa cccttcaacc gaagcgga 58

<210> 28837  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28837

tcatgatgaa tcaagattga ttcaaagagt ttgatgatt ataattatga tgacaaaaag 60  
ctcaaaagtc aataacactt catgataaca aagatgatga tctcaagaat caaagaatga 120  
gttcaagatt gaatcaagta cacttcaagg atcaagagga aagttgaatt caagaatcaa 180  
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240  
aagaatcaag agaagactca atcaagataa gtattaaaaa gttttttcaa aaactgagta 300  
gcacatgaat ttttctcaaa accttttact aaagagtttt tactctctgg taatcgatta 360  
ccagattatt gtaatcaatt accagtagca aaatggtttt canaaaaact ttcaaactga 420  
atttacaat 429

<210> 28838  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28838  
  
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 ctcatTTaaa atatataact ttaatattat tccattttttt gaaattcatt tgttttgttat 120  
 ttccttattt taacaattat atacatagtt gaattccaaa agaaaggcat tccttaggtg 180  
 cacattttttc tatttatgct tgctgattca agacatgttc atccagatga cattgataaa 240  
 attatatcta tagatataacc taaggcaacc aatgatcctg aattatttaa agtagttgct 300  
 tgtttatgat tcacggcccc tgtggaactc aaaattacaa atcacctcac atgcaaaagt 360  
 g 361

<210> 28839  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28839  
  
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 ttgggttatg taatgtccct gccacctttc agagatgtat gctagccatt ttgttgatct 120  
 ggtaaaaaaa tgcacgatg tgttcatgga ttatttcttt gtctttggat tttcctttga 180  
 ccattgttta tccaacttgg aattgggtgtg accacaagat ctctgtctga gggattgaag 240  
 tggacaaggc aaaaattgat attattgaga agttgcctcc acttatgaat gtgaaaggca 300  
 tccaaagtta tctcatatcat gcccgacttc tatcgagggt tcataaa 347

<210> 28840  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28840  
  
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 taaactgaac aaggctctct atgggctgaa gcaagcacct tgtgcatggt ttgaaaagct 120

ttcagcaact ctcatctctc ttgggttcaa ggctagcaag tgtgaccctt ccttatttgt 180  
atgtcatgtg gaaacacaac ttatgcgctt gtctatgtgg atgacataat ccgcactaga 240  
aataatagtg ttctaattca gcaacttatt tcatagctaa actctatttt ctctcttaaa 300  
catcttggca agttggacta cttccttggg attgaagtca actataattc cgcaggttct 360  
gtcatgcttt ctcaaaccaa atacatctca gatttgcttg aaagagtaaa tatggaaaaa 420  
gctaaaggaa ttt 433

<210> 28841  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28841

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atattttgta tgtaatataa actcatcaca caattataca ttgatatgcc caaaatgagt 120  
tattgctggc aaagtctata cacatgtttg ggattactta tatttaacat acgcataata 180  
caaatattgg aagaagcaac tgcaaagcc aaggcgcata tgttaatgaa gttgtactac 240  
aattcatttc ctcaaggacc ttagcacttc acttgatga cttgactcta tagccggcca 300  
catatcatgg agctttgcag agatgttatt tatcaagttt gtaacttcat tataactga 360  
ttgttgatgt tctacctgat cattcgctac ctcttctggc atccttgaga tatgtgaatc 420  
aa 422

<210> 28842  
<211> 410  
<212> DNA  
<213> Glycine max  
<400> 28842

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tcggcagaaa aatatcatgt cgggctatat aacgaccgat gtcacgtatt tgtgtctcaa 120  
ttcagtcctt gaataatctt tggatattgt ccaataggat atgctcgatc ggcgtcatca 180  
ggtgatgctt gctttttatt ttatacctgc tggatcggtc atctttcctg gccgacatcg 240  
actatcattt tttttatcag tgtcgggtgaa taatgttatt tggccgaggt gggctgatgt 300

ttttctagcc gattaaatga taacacgcc gttgtcggcc gaaacacaac tccagttgag 360  
ctcgcacgat aaaacatagc cgacctacat tgtcagtttt gacgcgacac 410

<210> 28843  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 28843

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aaaaaaagtg agagagaaaag agaaaaatct tgtgagagggg aagggtgcac acaacaacac 120  
agtctatata tattgggtcat ctcatataaa aaaaaataa taaccactt aaaaagacgg 180  
gaagagacaa cgtggcagac acgtgaggtg catgtgcgtt caatcagggg cgtgcatgtg 240  
ttgtgttact taaaaaact tcaaggttca aggaaacgta cacaagagtt gtaatatatt 300  
catattatta atatatcggc acattaattg atattgttaa tttattgtct tgatttattg 360  
gcttgattct ctgtactgtt ctgattcatc tcatcaatct tcttattctg taattctata 420  
ttatattgtg cgtt 434

<210> 28844  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28844

tcaaaactcg ctgactagt gctaggaata ganatcatgt tctgtattta attatagaag 60  
actttttgtt tgtacagata gtagcataag atcgatatata gttcgcatac aacggaaccg 120  
ttggttttct gtgtatagct ttaactacac gttgttggtg aatacttaag tagaatggta 180  
ctatagccat ttgcgtttga gatttacacg tctgaaaca ctgggtgttg ccattttggg 240  
tgtgataatg ttcaggatca agttgttact tactatctag tatcttcagt ttgaaaaaat 300  
aggtcacaca gagatacttt ctgtaggcta aaaattggga gaatgaacta tctagatatg 360  
tgcttattaa aattaggtta ttcataccat tatcttagtg taaatatggt taactataaa 420  
cttgtaatat ata 433

<210> 28845  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 28845

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgg cgatcagaat 60  
 tgccattcct tggattatag gggtgaaçca agctcatgct tttaaaaaa ggttcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaattgagtc 180  
 acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcttgctg aaaaattcgc aataacttcaa ctgtgcatca ttgcgatgca tccatgcttt 360  
 tcattggttg cattgctcgt tgcattcttt cctttgaaaa taaaataaaa tgaacttaat 420  
 cattgttat 429

<210> 28846  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28846

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 tcttccaagg aaggaaaacg cgtggagtcg ccaccaatgt ttattcaagg aaaacgtcag 120  
 aaaaaccaa aatggaaaag gtcaagggtc tacgtatttt gaaaatgagg gttcgggaat 180  
 catttacgca tggggaaaagt attagcacc cactgacca tcacaaggga cgacaacctc 240  
 taattgagtg tgcaaatcat gacttcaaaa ttgtatattt tcccttttat atgttttttg 300  
 tgtatattcc ctttttatgt tattttttta tttttggcc tttctacgct ttttactttt 360  
 ttgtggtcca caaaggtttt tccctcactt ctacgtattc 400

<210> 28847  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 28847



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 ttgagaagag gaaaagaaga taacctgtca cggaggatga agagtgtaaa ccgaactcag 120  
 aagagaacaa tagtgattct gaatcccttc catgtcatta caaccacaca ctttaccaac 180  
 caccacacac tgccacggtc gcagaagaaa cacacacttg gogtcttgga cactcgcact 240  
 tccacttcgc atcgttgcc aaccacccc gcatgcgcac cttgccttgg ctttcgcagt 300  
 cgcacatcgc cacaagtaca ggtgctggga tagagtgatg gaacaactga gatggagt 358

<210> 28848  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 28848

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 catctgagtt tcaatttttg tatcccttgg ctgatgctct cctcgccgat tttgacggcg 120  
 acatggtgga agatcgctgt gtttaaccgt agaggtggtg gcagatccag acgctgattc 180  
 gaataagaaa acgttattca tggacaaaga tgatcaagaa gatgaacgtg taccataaaa 240  
 tgtgattctt ttttatttgt agaagctgaa tattattgcc aaatgaatgt ggaagctgat 300  
 atgcgtttca atttatatgc tttatattat tgaaacatta agaaactgct ttatatgcgg 360  
 tagtatatat atatctatat atacatatat atatatatat atagatatat at 412

<210> 28849  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28849

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 tttcaaactc gttcacccta agaattcatt caacacttag ttctcctaaa atgttctctg 180  
 gtaatcgatc accacaatgt gtaatcgatt ataacaaggc aactaagtg taatcgatta 240  
 caaaaaaatg taatcaatta caacacgtcc ctgatgctta taaattcaaa ttttaagaatt 300

cacgaaactg caacttcgtc tttctcgcga aacccttatt cccaaatttt ctttctacca 360  
 taactaactc atttcttata caaatcacgt cccacaaagc ccaaaattca tcttttttca 420  
 ttcn 424

<210> 28850  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <400> 28850

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 cgtgaccgtg cgtttacttc gtgtactggc tggcatgact ccgtcttcga cgagacactt 120  
 gttcgcgatg cagcgatagg aaacagtgtc gagttgaaca tgagtaagag caaagttgac 180  
 tgctttacga ctgtgcgtta ttctgggact atgcatatcg ctgtatactc accaaggaca 240  
 ttcaccattt atagtaggta tttatcgata atggatgatg aatttgtacc acgcatctcc 300  
 gatgggatga gtcttgcttg tctactcta gtgtggaagc aaacctgtg gcttcataca 360  
 cgctctctt ggattacaga ttgcatact tgtgctgaat atcaactgct agctctagat 420  
 agtagtgatg tttatcg 437

<210> 28851  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28851

tgagatgagg aagtgttgaa tggtgaaact tctgctttt attgntttcc acagagtggg 60  
 acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcagggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgacca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcaaggagg cttgtggtgg ctggccagct ctggattttg tgtgatatgt ggagtatggc 300  
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360  
 aggctaagat ggtctctggt aatcgattac caaggggtgt aatcgattac caggctagaa 420  
 aacgaagtca g 431

<210> 28852  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28852

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 ttatttggca aaaggtacgc aagtgaaaaa taaaaacatt agtgcaacaa taactaaaca 120  
 aatatgtatt cctgtatcaa tttctaatat atagtataa ataccatagc aacatataat 180  
 ttgattcaat gtttcataca tatagattgc aaacttgggg gaaattgtgt aaggaatatg 240  
 ctaaactctgc aacttaagaa caaagcata taatattggt tatggaaaag acatagggaa 300  
 gtcctaacct gattatagat gaggcgttcc agacataagt caaataattg taccatattt 360  
 tatcaaggca tttacattca caagttgtga gttacacaaa aggatagtga gtatcacaaa 420  
 gtcctta 427

<210> 28853  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28853

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 gtagctatct tggcggggtt attttacaca ttgactgaa gatgcgaaaa gagtagcgca 120  
 cggatcatct gttgtttacc cgctctatcc ttgcatatca cttaaagtgc gtagaccacg 180  
 tcttttccgg tttttctgat gttttcctca aataaacgtt ggtggcgact ccacgcgtat 240  
 tcctttcttg gaagacgcac cccgcgagtc acgcgtcgcc ctctgccga agggtaagtt 300  
 gcgacacacg ccctcacctt cagaggacta cgtgtcctcg ccatcagagg gctggacgcc 360  
 ctacacctta gaggactaca cgtcctcgcc atcagagagc tgcacgccct caccttcata 420  
 ggattacacg tcctcg 436

<210> 28854  
 <211> 413

<212> DNA  
<213> Glycine max

<400> 28854

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tttgtgatta taattaattc taaagattgc attagaaaaa aagtgtttta caaaaactat 120  
tataccattt taattaatca tgactttggc gtaagatatt taatgatttt attgactact 180  
aatttttgac gaaggatttg attgagtttt tcaaccagtt tttttttttt tttcgatttt 240  
gagatcttga ttcaggatta aatttaattc tacttaaaact aattatgtaa taaaaataaa 300  
aaatgagtag tttttttttt ttgttttaat tcttctgttg aaaaaataaa acaggactaa 360  
gaattgtttt aatacagtga taagaagtgt cctcaactat aaatggagga aaa 413

<210> 28855  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 28855

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acgttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120  
gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180  
gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240  
aaaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcgat 300  
atgttacggg gactaatcag acatccgagt aaaaagttat tgtcgttgga atttgctcaa 360  
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactccatc 409

<210> 28856  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 28856

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caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120  
cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatac tcttataaag 180

agaaatcggtt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgagc gctcaaattg atcaatctat ctctttcaag agagatttct tcttttcttc 300  
 ttcttcattt tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa taattctaaa 360  
 cacacaggaa tgcgtgtcct tgtgtgttt 389

<210> 28857  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 28857

tgagaagctc tatgcgaagt gaaacaattg attaggattt tcagattata gaaagatatg 60  
 aatgagttaa ttgattaccc aattagctaa tcgattaaaa ttgttaatac tataaatacc 120  
 tttgcttatt ctactacaa gaaaaaatga ttttaacgag gggtattttt ggccttaagg 180  
 aggggtttaa cccccgtaaa gtatgttacc tattgttggg gttctcattg gcaaaacatc 240  
 cacgataaat ggtttaccaa tggcttttgt gaacccttta aaacacaaga attacttgat 300  
 gttttgaaac ccctggtaat taccaagggt ttattaaccc ctattatcac cacaatcatt 360  
 gctggacgat ttaaaaccct tggttcttat t 391

<210> 28858  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 28858

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 ttatgaaata ttttgggtga ttctgaacaa agcttgcttc tactcagctt ctgactttta 120  
 ccacacgtca tcgaaattgg agcaactctt ttttaccxaa gttgaaacat tgacttttat 180  
 gagttctaag gcaaggactg aatcctcagc atagaaagtc tgtg 224

<210> 28859  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 28859

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 cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atttccatat 120  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180  
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240  
 acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct cacaggctaa 300  
 agagtaaaaa aaaaaaaaaa aaaaaaatcg aaaaaaaaaa ttcgaaaaaa gaaaaagaca 360  
 agcattaaag ttgagtgaat aagatcttaa atggcacaag actgatgaaa ctcttggttc 420

<210> 28860  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 28860

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 gatcctccca agttgaagat gtccagattg caactgttgg ctacttaact cgggattctg 120  
 atgatgatcg aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat 180  
 gcttgactg tcttgggaga gaagatgaca gatgaatagc tgggtgagaaa gatcctcata 240  
 tccttgccca atagatttga catgacagtc actacactag aggatgcccc cgacatttgc 300  
 cacatgagag tagatgaact cattgattct cttcagacct ttgagctagg actctcggat 360  
 agggctg 367

<210> 28861  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28861

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 ctattgtgaa ttcttttagtt cctgaatgta caaccttaaa attgttgctc gttcccctct 120  
 ttgctaaaaac atcaagagct gtaactacgt cactaatcaa aggtctggtg tcagcttcct 180  
 tctgaataca cattgctgca actgctatgg cttgggtgtag accctatggt gggtagttcc 240

ctttcatcaa tggatcagcc attgatgaaa atttccttct gtctctgaat acgggttggtg 300  
 ccttataaaa aaaaacatta tgaatgtcaa ttgctgaaca tttgtgcata ttattggtct 360  
 tagct 365

<210> 28862  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28862

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 gatatgctta ttaaataaggc gcctaattaa actatttacc caaatgcacc atacatgtaa 120  
 ttgcacactg atattattttg cctatatattg atgttttagtg ttttcttaaa tatttttgtt 180  
 ccttggtgac ctttaaacad tgatatgcag agtaaaaatt gcatttttgt ttaatgtttc 240  
 aacaaaactc tgtttttttt gggggtgggg tgggggttgg taaaatatat tgaagctcat 300  
 ttttaacatg gttccttattc attgaaccct gttaaacaag ctaagtgtag atgttgacaa 360  
 tttgttntga ttatatcang aagggtcatga ggaagctcac gaagagttgc ctaaaaaagt 420  
 taaaac 426

<210> 28863  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28863

aacctcattg tctctcacag tcttttagatt gggattcttc caatccttgn gtcoggactc 60  
 tcageccactt atgatagccg ccgatgatcc cattactgct tcccctaagc tctctgtcct 120  
 ttcttcacgc cgcattcccat gccttgcgaa ctcttggag taccctcgcg ttgtgggtcac 180  
 tgaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcatgggac 240  
 atccttcgca tgaagataga atcctgattc ttccttcctt ctacgcaggg aaccaattaa 300  
 cagacgcccc tccatgctag ccaagagttg gtcccaattc gcctttcctt tttogacgca 360  
 tgagcgggtga ccttgtaacg gatagacgtg cctaccttct tggag 405

<210> 28864  
 <211> 112  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28864

tcanaaggag ccataccaat actggccttg tagctattgt tgtagtaaa ctcaatcaat 60  
 ggcaaacaat ccattcagct acctgtgtgc tctataatac acgcccgaag ta 112

<210> 28865  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 28865

cttctactta tgtggcaggg cgggtttcct tcactttctc tctttcacgc gagctctttt 60  
 cactgtcctt ccttcctgag gtgcttcttt tcatgtccgc ttgagtgggc ttatagccta 120  
 aaccatattt cccacgattt ccttgcgctt ttatcaagct agttatgccg ccattgtctc 180  
 tgcctaaacc catcccgggt tcataaccgt tccccaacat aactcggggc atcattaccg 240  
 ccgcatcgga cagacaaagt tgcccaaaga cggagtccac ggaggaaatg ctaaccacct 300  
 caaaagactg gaaagcggct tctaacgatt cttctgcggc ttccacataa tgcattggagg 360  
 atgggcagct taccaagata tcttctctgc ctgatacgat gaccaagtgc acctccacta 420  
 cgaatttc 428

<210> 28866  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 28866

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 tatattgaat gctgtagtgc ccgattgtac atccgtaaaa ttgttgctcg atgcctgttt 120  
 tgctaaaaca tcaagagccg taactacgtc actgatgaaa ggctgggtat gaactaactc 180  
 ctgaatactc attgctgctt ctgctatggc ttggcgaata acctttgctg agtatctgcc 240  
 ttctcatcaa cggatcaacc tttgatgaaa at 272



<210> 28867  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28867

aacgcgcatt tgatgcgtcg atgnacgncc gncatagaat acacacgcac gcaaggagcc 60  
 atgccaacac aggacacgna ccgattttctt ttagaaaacc caaccgaggg ccagcaatac 120  
 atcctagcta ccaagggccca ccaaacacac gcccgaagta gatgcgcacg aggagaagag 180  
 ccgtaacgga cgaggcagca gatccatgga aataagcaga ccttcgccac atagaagacc 240  
 cctacgaatc acggtaagct gaccacaaag gcgcatgcgc accagaacga atgccctgta 300  
 caagactaaa taaggatcac tgccacgaca ctactaacac gatatacgac tacacaaacc 360  
 ttaacatgcc ataccttcaa tgaaaagaag aacaaatgag cacaaatgga gagtcaaaca 420  
 gccatgaccc acaccgcaac atgcccacga ctcagcaagg atgaacacaa gacgcacacc 480  
 gcn 483

<210> 28868  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 28868

tgtactagtc atatatatgt tacaaaacaa cgtttggttat tttgaatcga ttattgcaga 60  
 tacagaaata cttaaacaac cctgcccaatt agggggttttg cggctttttg caaattccgc 120  
 ccatgtttct ggatcaaggc cataacttgac ttaggatca gatatttgct gaccttcatt 180  
 gtcagcaaag acaaattttg aagtcaatga agacttaaata tgctccatc ttgctgcaac 240  
 tgttgacatc accttttttt ttgcattttc accttcaggg atatcaaatt tgcgctacac 300  
 aacaaaagga gttatgtaac agtatgtaaa tgaatccttt aaaagtaact taacaacaaa 360  
 atcatgaata catgtgtgaa ttacttacca aaatatcttt ccatattaag ctcttttagat 420  
 c 421

<210> 28869

<211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28869

tccgaaagtg tatagtaaaa ctatgaagac attcttattt gcattgcaat attttttcttg 60  
 gtttaatttt tatattcacg ggataataac aagaaacata tagaagggtt aaaataattt 120  
 tctgaacgta aactgagcta ggcagctcta cacggctggt tctctacttg ctgctcgtc 180  
 taagcttctg aggagtgaac caatattttg acatagtaat atgaatatga catgggttact 240  
 ttccaaagaa agtggggccac aagggaacaat gggtcaaaga atatcacaag atcctgctat 300  
 gttaatacaa attcatttca atcattaaca cccggacaga attactagaa acagtctaca 360  
 ttgtaactga aaaaagaaaa aaccactggt gcggagtcaa caaaatatgg agtctcaat 419

<210> 28870  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28870

tatatgcatg tncgtgtttg ttttaagccg caccaatttt gtatatgaac atgcnatgtn 60  
 ggagagccat acggcacaag gcattttcag ttgcgtatat atatcatgcg atgtgttatt 120  
 tcgatatctt gcgttctagc attctggctt taaaatgcaa aaaaattact agtgctttca 180  
 taattaaatt aatagaagat ttttaaatga attacaataa agttattcgc taaaattagg 240  
 tcttaattcc atgtatggcg ataggtcatt atagtgtgta cttacatgcg ctttgattat 300  
 tatattaact tgatcatata tgaatggtta tggataagag tagaatgaaa cgaataacac 360  
 gttttcttat tactctaaact ctaacttgac ttttctcaat 400

<210> 28871  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 28871

aactataaaa ctcagcttgt tgctggcgga ttctgtaat tacgtaatgt tggtcggact 60  
 ctggtacatt atgaagggat tcttactcgc tattggtgct tcttgttctt atgagctgct 120

gaagattatt caactaaatt aagtgccttat taaataagcg tttgtataag atatgtttct 180  
atgattgaag atgaaatata gttcaattgt tttcatagct gaaaactgta tttacaaaag 240  
gagtctattg aaataagctg aaaacatctt atggatatat cgcacatgat ttttattagg 300  
tctcccaaac aagtggtcac atcataagat aagtcccaat aagctgtaaa taacttattt 360  
gaagaacccc ttattggatt tttgtgttac tgtatttaag aatttggctt tgcgcgagga 420  
tgtgc 425

<210> 28872  
<211> 437  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28872

gagttgccat cctcattnta caggccaacc agcaatccta tgatgcctta actctttaat 60  
ggtgaattag cacaataaag gacttcagca tactaaatgc tagtagtacc agttgcaaca 120  
atcacaattt gcataaacat atatgaaaaa actcaagtac attcttacac ctcaaaaagg 180  
caagaaggaa aagaacgcat atcaaagaaa tcttaagtta tggtaaattg cttagagaat 240  
atcctttata atgcatgaaa ctaaaaccag taattacagg aagagaaaag aacatactga 300  
tccataccac agagcatgat agacagttcc acaagaacct gcaatttaga ataggaaaca 360  
agttacaagg cataaaatgc ataacaacca ctgctaacaa gatatttggg tttaaaagca 420  
taggtttagt aaattat 437

<210> 28873  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28873

agaatcggac ctcaagtgtga aaagttatga ccactncttt ttctcgagag cgttcgttga 60  
tcaatgtcga gcatctcgac atgttatgog ctcaaatcgg acatccgtgt gaagaggat 120  
gaccatttga gtttctcgag agcttccatg gatcaatttc gagcatatgg tcctattatg 180  
tgcccgaatc tgaccttcgt gtgagaagtt atgaccattt gaatttctca agagcttgcg 240

ctgtttaatt tcgagcgtct caatatattg taagcgtgaa tcggagctca gtgtgaaaag 300  
 ttatgaccat tagaatttct ccaaagctta cttgggttcaa tttcgagcat ctagacatat 360  
 tatgtgcacg aatctgtcct tcgagtgaca agttatgacc atttgaattt atcgagagct 420  
 tacgctg 427

<210> 28874  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28874

ctaagctatc cttatggcta gctccgactt actccctgt cctctataag atgtaagcca 60  
 agcccctact ttcgaggggc agctcccacc ttatgacgac tatcccgggc aagacgatga 120  
 ggaatgagat acccatctcg gtccctgtct ccacctcaaa gatctgtccc cccatgaact 180  
 accccaacca aacatagtcc gccatatccc gacttcaccc acactcgtaa aagaatctgt 240  
 tcccttcgtg gaagataaag gaaagattga ggtgcttgaa gagagggtga gagcagtcga 300  
 gggcctcggc aattacccat tctcggtatc agcggactta tgtctcgta ccaatatcgt 360  
 cattcctccc aagttcaaag taccagactn tgataagtac aaagggatga catgttcgaa 420  
 atggcatctt 430

<210> 28875  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 28875

atttcacgtg acaacaaaat tgacatgtcc gggtgtacta aagtaggtga attgattgaa 60  
 aaatttgaat cataggcaga gttgtgtgaa cttatacatt tgcattctgg taagaccact 120  
 acagtgagat ggaacaacaa gccaaaaaga agaattggatc gaaacaagga aagaattcgt 180  
 tagttggtag gaatgccac ctctttgatg acaagtccga tggtaacgac attgccaaat 240  
 ccttcaacta acactatgtc taccatagtg cctactggta ctacaactta tgaaataccc 300  
 acaattatga ctactttgtt cctctgacaa caactagatt tgggaatata tgatataatg 360

tatcaactat cttgacaact aattgaaata gtcataacta gtccgtggat aaataggtaa 420  
 ttaaatat 428

<210> 28876  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28876

gtgtagctcg acgaagtgac cggataggta ggttgctagc cctgcaagaa gaatactatg 60  
 aaattttgtgg attttgaaaa gaaagcatga aatcgggaca tggatgaacaa taactggggtt 120  
 ttgaacctca gcataaggct ttttattaca aaggagaagg aataaaaaaaaa tagcaaaaaa 180  
 tggaggagcc tacacgtatg tgcctggtca ttcttttatt atatgacata agattatcca 240  
 gttgggagac cttcttgtgt gatttggaaac ttaagtttca accttcgccc ttcgacaacc 300  
 atcaagttat tcaaatttgg agtttgtcct ttttagtatt ttaaattaaa atttgatttc 360  
 ttttagttcc tcanattcaa taaaagttat gttagttttt cttgtaataa aaaaactggt 420  
 acaaaatttg 430

<210> 28877  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28877

gctntgcgga tttggtcttc gccagtgaag ggatcggtgt ttgtccgaaa agagttatat 60  
 ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120  
 gagaaacca tgctatgact gccattccta tacggccaag tttcccacca aacccaacaa 180  
 tgtcattact cagtcaataa caaacctcct ccttaccac caccagttta tccacaaagg 240  
 tcatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300  
 agcacaacc aaaaaaacac caacaaaaag gaattttgca gcaaaaagcc tgtaggggttc 360  
 accccanatt ccgttgcac atgctaaact tgatcccata tccactcaat aattcaatg 419

<210> 28878

<211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28878

tgcttgtgga gcttctatgg aggctggatc tttttgcttt aatgaggtcc tttaatggtg 60  
 gttttctacc atggagatgc agtgggaagac aaaggagaag aggtgaaagg aagcgccatc 120  
 cactaaggaa taagccatgg aagaaggagc ttcaccacca agataagcct tggataagaa 180  
 gcttggaag atgcttcaat ggaggaaaag aaagagggag agaaagagag gggggagcac 240  
 gaaattgaag gaataaaaga gagagagaag tggaactttg aagtatgtct cacaagactc 300  
 tcattcatca aagttacaac aagtgttaca catgcttcta tntatagact angtagcttc 360  
 cttgagaagc tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 420

<210> 28879  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28879

tatgattaaa tacgctaacc tcagcaaata ttgtcttttc ttaggtatgt tctttccttt 60  
 ccgtttttca tattgatgat gaataaacat gaatttgata aattgttctt gtttgtgttt 120  
 gatggagccc tgcaacactc taatgggtggg gtagatttac ttatgcatag aaattaggaa 180  
 aagaatagca ttggtcatga aaacatatct ataacgttta gaaattagaa tttgggtcca 240  
 aaacaaaatt gaggactaga agactaataa ttatgccggg ttgttatcga tccttttgtt 300  
 tggaaaaagt catgggctaata aaaggaatca catgggtgatc tanatcaact acagatcata 360  
 tatatcatgt atcanaatca tgaaaaatat atgcactgaa tactctcgtt ggctgcagtt 420  
 tacaatc 427

<210> 28880  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28880

tcaagcttca tgagagagtc atatatcaaa tngagaggtt taatttttagc tatgctaaac 60  
tagccaacaa agggagaaag aaggcagact tcgaaccccg atattgggtt tgggtgcaca 120  
tgacaaatga aaggtttccg gaacaaagga aatcaaagct tctaccatgg ggagatggac 180  
catttcaagt gcttgaaaga attaattgaca atgcttaca agttgagctg cccggtgagt 240  
ataatgtag ttccaccttc aatgtctctg atttatctct ttttgatgca gatggagaat 300  
ccgatttgag gacatatcct tctcaagatg gagagaatga tgaggacatg accaagagcc 360  
atggcaagga tccacttgaa ggacttggag gacctatga 399

<210> 28881  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28881

taggcctaatt cttaactctt tttaagagcc atcacttttt tatttagatt tggaccatac 60  
catgttntaa ggagttgagt agagtgtgag cggttaaact ctctctccat tctccccctt 120  
agttataact aaatacataa aagattgaaa agaaatctta tatggttggt tagaagcttg 180  
caaagtattt tgttgaagta cgatgaaaac attaaatatc aacagcattt cgtaatttg 240  
aagacattca ggattgtctt aatattctct ttttcaccgc agaaactaaa ttttattacg 300  
ttgaagagtg ccagcagtag ccctgcattg ttacggcatt tcaatatatt caatttgatg 360  
aacaaaacat aatgtcattg gtaatatcca tagtattcaa caataaatt tttaaag 417

<210> 28882  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28882

nttactagca tcaacagtat ccttagatta ttatnctca ttagaaactc tcgctgctct 60  
tgtaaaaata aatccttcta agcttcatgg aagtgcaaaa atggttggct gtggttcagt 120  
aaatagctat ctctgtccc tggcacaagg gtggggaagc aaggaggagg gcatggggtt 180  
gtactcttgt attatggcaa atgagaaagt ccaggatgaa gcactgtgtt tgtttccttc 240

tgatgctgag aatagtagtg accaatccaa ttactgcata ggttctactc tttattttga 300  
 attgcatgga cccattgctc anagcaagga accaattgta gatacagttt cctcctgttt 360  
 gagagttata cacataccgg atatgcattt a 391

<210> 28883  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28883

taagaacaga attgcctaaa tcatttccaa atatgtatgt gattacgaag catttcaaga 60  
 atcaagccta ggctattgtg caagcaatca atggggcaaaa acacaccaaaa atattatgat 120  
 aatggatggc tcaaattctc acaaaggtaa acttattact ttcaaattga gctttcaaaa 180  
 ctatcatgac atgtagagga aaaacaagga tttcaaata caaaatgtca agagactttt 240  
 attttcagaa caattatcca tttcttgaac atatcctata attcaaagaa aaatatgcaa 300  
 agttgtacat gcaaacagaa ttgacctaga atattaaact ataaacccaa caaaactaac 360  
 aaatttaaca caagcaaaac taacaaaact agcaaaacca aaaccaaaga acactcccnc 420  
 cccccccata c 431

<210> 28884  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 28884

acgacgcgtg aataaggacg gttctactaa atttggtcgt aacaaatgac cggtaggcatt 60  
 ttttgtaa ataacgtacac gaaccattca atacgaagac ggttatatttc cgaaccggcg 120  
 tcatagattg ggcaagttta aaggtagccc gtgagccaca gccactgaag aagttaagct 180  
 tcaaatatgt gaagcttgct ctgatctca tctctcccat tcacctttca ctctgtgact 240  
 ctataactcc acgtcctat caatgctcct ctacggcatg ttctgaatg cccccattgg 300  
 gaaaagaggt tctagtgtg ggggcctagg gttagggttt gtgagagatg ttggatgctc 360  
 catgcattga tgagtcttat cgcaagctgg tggaagccat tcgagcacag tgacgacgcc 420



gttaatgccg

430

<210> 28885  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28885

attaacctag tgtataagac aaggctttgt tcttggtgtc gcaatggtgc atgctcgtaa 60  
tattaagcac gcttcattcg tccatccagt agtagggaat tatgcttctc agaaagaatt 120  
gacgcataaa gatagccctg tctacaacta tatagtatat gtattgatcc atatcgtaat 180  
gaggggaccc atctctatat ataacagccg tggacatata tgttcttgac aagactagat 240  
gagaatagta cgtatacgcg ggcggagctg gtaccatcag gtatcgaagc gaaaggccaa 300  
gtatgattct ctatcaagga cccagaggat atcactgatg cctcttctaa acgcntgaca 360  
tgcgataatg gatctgtaat atctcatacc gactgatgaa cata 404

<210> 28886  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28886

ntntggctaa gtggctatTTT acaatcaaaa catggccttc atcattctca gattcatgca 60  
ttcattccat aaattagaga ttcatgcaaa agtcattacc caatgtcagt cgtttctttc 120  
acaattaaga tcacactctc accgggttac gattaacgca ttccttcaca atcaatatga 180  
caaaccgact aacattttca gtcataatcc taatttcttg ttctttctct tttaatgact 240  
gcatgctttt tcaagacaaa agatctatgc attccacttc actcaattca tacaagtgct 300  
tcgttcaatt caatcaaaaa cattgaatat cacatcaaaa gtcaaaccac tgaataacat 360  
tcaatcatgc ttttcacaag ctacaaacaa ctataaacat act 403

<210> 28887  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 28887

tgtttcactc acctcttgaa acacatagtc attcatgtgt tcttcgctta ttatttatct 60  
tctccattta ttggtcaata agattttctt tgtttcttct ttcttctcaa acttatatga 120  
tctactaatt ctctatttct gagagagttt gtctataaag ttctaggaga agagaaattt 180  
ttacccttat acaatacaaa agtatacaat ttaagattag atcacatgag atgtattctc 240  
aatagatttg gctaataaaa tctttcttta tcttttctt ctttattatc tagatttctc 300  
taatttgaac ctacaccta attttatttt ctgtcaagat atatattaag ataaaacatc 360  
acaagattta aatcattcta gaatatcaca aattcgaata taacacacat cttatccaaa 420  
ctagatatac at 432

<210> 28888

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28888

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gctgccaatg tgctaaaatc cttcacaaat cgtctataaa aacttgctaa gccatgtgtc 120  
gcaacctacc cttcggcggg agggcgatgc gtgactcgcg ggatgcgtgt tccacgaaag 180  
gaatacgcgc ggagtcgcca ctaatgttta tttgaggaaa acgtcggaaa aaccggaaaa 240  
gaagcgatct acgaactttt aagtgaaggg ctcgggagtt gtatttacgc gtggggaagg 300  
tattagcacc ccacacgtcc gtcacaaggg acggcagcct ttaatcgaat gtgcaaacat 360  
gactttgatt tttacgttcc cttttatgtc cttatatcct ttataccctn tntatanttt 420  
tttct 425

<210> 28889

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28889

actcagctgt cattggcgag caaataaaat ntttttcatg atagcatgga tagtattaag 60

aaagttgcaa ttgattcaga cagatgttgt agggcctcaa agaacacctt cattgaaagg 120  
 caatttgtat tacactatat ttattgatga ctttttcttt aagttcaaatt caaaggtggc 180  
 tgaaattttt tggatgttca aagtcaagta gagaatgaaa gtggtctcaa aattcaaatt 240  
 ttgaggtctg acaatggcat caagtacaca tctgcaaaat ttaatcaatt ttgggaggat 300  
 tctgacatcc aacatcaact tactaatcct tataccccac aacaagatgg ggtagtgag 360  
 aggagaaata aatatatctt ggagatgatg agatgcatgt tgtatg 406

<210> 28890  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 28890

ttttatttca aaagattctc atgaaacttg tgacattggc catttagctt aacacaaacg 60  
 aaagccctat tctcttaatt cgagaagaag ccctaaaatt tttgagttga tgcctatgga 120  
 tatttgggga ccatttttta aatcatcaat tctgggacat agatatattg taactatact 180  
 tgatgatgat agtacatata ctcgggcggc tttattaaaa tcaaaaagtg aagtgaaaac 240  
 acatgttcaa aactttatta atctgatcga aaatcaatcc gaagcaaaaa ttaatgcat 300  
 tcgattcgat aa 312

<210> 28891  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 28891

tgtccttctc ctctgcaatg cctccacct tgtttactct ttcctttatc tctatctgta 60  
 aatccttgta gcatctgaac aattcatcac aatccaacct ggtgcacaac aacttggcca 120  
 acacaccacc aactttggaa gacagttgac agttcaacct tacgacctca acaaaggcga 180  
 tgggtggtgtt agccacctta tgacactcca ctctccaaac agtgtgagca gtaaccctcc 240  
 atttggcgat ctctgactcc atggacacca ccttgtgcaa accctcttgg tgctactgtc 300  
 cgttctctc tagaatttcc aaacttcttt ggagaaagac tttggtagag tccgtagcat 360  
 tttgtaccct aaccaaccga atcatatctt ttgtcaaagg ttgacacaaa gccatatg 418

<210> 28892  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 28892

tgtatataat tatcatttgt tttggcaa at aacttctttg tcgtaacatt cttaacatta 60  
 gatagtgaat atatatcgac aagtgaatag aatgaaatct tattttaatt tgttatttaa 120  
 ttttaccttt ttcaataatt aaagcttata atctttctaac tcccgttttg tctttaaaat 180  
 gtatctttaa aatttatgag ttttaataacc attttagtat ataaaaattt acatgggtcaa 240  
 ttatcaatca attaaaagtc ataaaatcat tcttattata atttttaaaa taattatatt 300  
 ataaaaataa taaatttatc atatgagatg ctttgtcatt gatttgtgat tgaataatta 360  
 ggtgtgttat atttattcta acttatatat ggaatgctta tgcaagtata tttcatttaa 420  
 aaatg 425

<210> 28893  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28893

tggtgactct ntgagcatat ttttatcgta gaattttttg caatttattg gttctttatt 60  
 tcgacagaaa ctgcgtaatt aagctagaca atgaaagaca cgtgggaatg ggagatgtag 120  
 tgatgcgatg cctgcacgac tagcttgcaa acttgaagct gaatcaccat cacgcatcaa 180  
 aagttgaatc catcagccac accaagggtcc ttttccatag agtagaaata aatgaaatga 240  
 aagtgaatta agatgagata gtcttaaatt aaagtaaaat gtagaagtgt aaatttcatt 300  
 gtagtttatt atttatttct ctctntttat gtttttttca actcaaaca acgaacacta 360  
 aatcagtaaa aatattaata tatatatatn tttttataa ttttaattaat ata 413

<210> 28894  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28894

ntagaatggt aaactcatct tgaatgagag gatgtttttg tgcgtttttc aaaagcttta 60  
ggccctttttt ttttttaatt ttatcacgga tgaaaacctg ngcatatata tatatatata 120  
tatatatata tatatatata tatatatata tatatatata tatttcaggc ttccctttta 180  
cgcttttgat accgtatacc tcgtttaaaa taaaataaaa tactgtgcat ctttcttttc 240  
tattgaacaa aacacaatag aagcaagtca gaagcactcg aatgactctc ataccaaagt 300  
taaattaaat aggtattgat ctacacatac acatcaattt aaataacata tttagatcac 360  
acaacggaaa ttaaataatta cgagcgtacc tccagccatt gtacatcgaa cgcgaan 417

<210> 28895

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28895

gtgatccttg tttcactaat atcaaaatct ggctanccat ttaagtgtc ataaattcca 60  
taagggtaga agcctgatga accacggagc attatgaatc tgaaattgac catccacaaa 120  
tgttaatcct actgctatca gtaaaaaaag ctactagtgc tttaaatatt attctttgag 180  
caataatgga actgataaga ttgcaagtag aacttgtaat gaaaatgggg gggggggggg 240  
tgacaactag tncattcctg atcatgtgtg acatataaaa ccaactcctaa tttgttagca 300  
gactctttta cgatgggtat atttctactc acgtgagact tcaaaccac tcccagctta 360  
atcgcacact caaatcaggg aatgcattag aatatatc tgttgagaaa ttattagact 420  
tgatggaacc g 431

<210> 28896

<211> 403

<212> DNA

<213> Glycine max

<400> 28896

gtggaattct tggaaattgg aatcatgata ttagtaagca gtccaatgga ccttttagcta 60  
aatgctcaat acttgggttg ttcatggaag gaacatcaca gggtcaccca caaatatgta 120  
tagaatatgc acttgattcg taatttcaag tatggctatt atcatgtttt tacagttttg 180

aaaatgttat cattttgatg tcaaagtgtg aaagtgtttt taaaaacatt ttcaagactt 240  
 ttacactttg caccaacatc atctaacttg tatccattca actttttgtc aaaatcgaga 300  
 agaaataaaa ctaacaaaaa tcaagaggaa tggagtttat ttttcccatt tcagatccaa 360  
 tgcagaatat ttgtatgtaa aattttttct tgaacccaat agc 403

<210> 28897  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 28897  
 ttacctatac ttaatagaac atacttatac ctctacataa taacctgtgt tgggctgagt 60  
 gtgatacact ttacacgtgt tttatacgca ggagctagtt gtattcaccg actaacaact 120  
 gccccaaatt tatagttttg ctagtcctca tggccctata gaccagctcg ctagtcctca 180  
 cgtgaccctg acatgcaacg actatgtaca aaggagcatg caacaaaagt tactgattgc 240  
 atgataggag aatggagtaa agatccctaa tcacttgtct tgcacaacgt atgcaatcat 300  
 ccacagagaa gaatagtatg cactctgaac gattagatgg agctgatca 349

<210> 28898  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 28898  
 ctcagcttga ggatatgggg acccatcaca tgtggactat gtgtttgtcg ggcgatggtg 60  
 cacaacaagt ttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gtcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacaacacaa 240  
 gctatcacag ccaagcaaaa cagaacaaag acagaaaact ctgctcaaca catcaaccaa 300  
 aatcacagct tttctcactt aaagaccaca gtaacaattc cttcgatcca attcattaac 360  
 cgttggatcg actccaaaat tttactggga gtctatagtg cataagccta catttggaac 420  
 gttgggatct actggcaaa 439

<210> 28899  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 28899

actcagcttc taattttggg attgatgctc ttaaactggt ggtatatatt aaactgagtt 60  
 ccaaccaagg ctgtctcaaa gacacctttt gagttattca agggttggaa accaagtttg 120  
 cgacatatac gcgtataggg atgcccgtct gaagtaagaa ttataatcc acaagagaag 180  
 aaactagacc ctaggactat tactgggtat ttcattggat atcctaaaag gtttaaaggg 240  
 tataggttct attgtccatc ccacaacact aggattgtgg aatcaaggaa tgcaaagttt 300  
 catgaaaatg acttgatcag tgggagtgat caatttcaga acatttcttc tgaaagggat 360  
 cactatgaag ctgaaccttc tgggacaagt aataggttgg tagtcattct caccctcaa 420  
 gttaaaatg 429

<210> 28900  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28900

ntgtatctta ttcttgcata ttatctataa attctttgaa ctgtaacatt ttaatttttc 60  
 gtaaataaat ttaaaaagct ttttagtcaa aaataaataa ataaataaat atagaacaaa 120  
 taatagactg agtaccctag gtataaatag ttatgttaag tcagctgtct catttttagt 180  
 ctcatcttcg tttttcccat tctcctctca aaatcctttc tttttcccgat agcccaccaa 240  
 acctgtctca gaaaaacgac gatctcgaac ccgttcaccg ttggatcgtc gtgaaatttt 300  
 attatcatgt tcgcaaccca attccgaaca ttctcaccgt tgggaatttc aaaatcatat 360  
 ctgagcttat aggagaaccc ttgcgattgt agcattttta tttcccgag aaaccaaaaa 420  
 ctgtctc 427

<210> 28901  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28901

gacctataaa actcagctgt atcatcacaca catctgaatc gatatcggtt agtttttcag 60  
 anaacattct caacagtcac atctttttgt gtgggtcttg aatggctatc ataggcctat 120  
 atatagtga cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatcc 180  
 tcttataaag agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgatgatt 240  
 caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct 300  
 tctttttctt ttcttcattt tgaaaaggga ttaagagacc gaggggtctt tgttgatgaaa 360  
 taattctaaa cacaaaggaa ggggtgtcct tgtgtgttta gaacttgga aaggaatgta 420  
 taagatagtg gaactct 437

<210> 28902  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28902

ttccattctc ttggaagttc atcattggat ttttcttctt ctggaggatc tttattgttt 60  
 cctttatcat ttcttttga atcttggtca tgaatattca tatgttctaa agaatctgca 120  
 atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180  
 atggattcct cgatattcat agttctttta ttatatatcc tatatgcttt gctttgtaat 240  
 gaatatccaa gaaaaatacc ttcatcatat ttgcatcga attttcctag attatctcta 300  
 ccattattaa gcacaaagca ttgcaacca aaaacatgta gatgagaaat attagggttt 360  
 ctaccattaa ataactcata tgggggtntc tttaanataa gtcttattaa ggccctattc 420  
 atgatct 427

<210> 28903  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 28903

ctcagcttct aaggaggtga gcttagttat gagaggggtg gtttatctaa gctctagctt 60



ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctaaagaaa gcttctcaag 120  
gaagctacct agtctataaa tagaagcatg tgtaacactt gttgtaactt tgatgaatga 180  
gagtcttggtg agacacaact caaagttcaa cttctctccc ttttcttcc ttcaatttcg 240  
tgctcccccc tctctcttcc tctccctctt tcttttctc cattgaagca tctctccaa 300  
gcttcttctc caaggctcat cttggtggtg aagctcttc ttccaaggct tattccctag 360  
tggtggcgc ctcctctctc ctcttctctt ttgtcttcg cttcatctcc atggtgaaaa 420  
atcaccatca aaggacc 437

<210> 28904  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28904

tcaacaacat tcttcttct cttcaagtct tcaattttaa tcagtgatct tcaccttct 60  
ctctgcctca tctcccttta attcaggttg gttacttaaa attcttctga attattgctc 120  
agttagtaac agaattaagg tgcaacaaga gtaggggaga taattttcat gccgctccaa 180  
acattgataa tttctttgtg acattcattg aggtgctatg tgatagacc cctgggtcatg 240  
attgggaaac tagatatgct tgctgagcaa acaaaacatt ggagatgtta agacaaagta 300  
catgggagtt cttagagtat gaatgctctt gcctcttgct caaggaggaa aatgctttcg 360  
aggcanagaa tgcatttcaa caagagtaaa taacttttct ctcttgagaa atattt 416

<210> 28905  
<211> 408  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28905

tgtaggatta tggggtattc atcacatgtg gtactatttg gcagtcgggc gatggtgcac 60  
aacaagtttt ccacatccac aaagcgcgca taaaccacc atccctgtt gccacctcc 120  
aactgagctc acgtactccc acgtagccca taacctcggt tctctcaaca ccgggtcccc 180  
atcaatctc ccaagcttcc ccaacatcaa agtaaataaa cattcaaaca gcacaaatta 240

ccacagccaa gataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300  
cagcttttct cacttaaaga cccagtaac aattccttcg atccaattcg ttaaccgttg 360  
gatcgactcc aaaattntac tggaagtcta tagtacataa gctacat 408

<210> 28906  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 28906

aagctaccta gtctataaat agaaacatgg gttactctcg ctggaacttt gatgaaggag 60  
agtctcgtga gacatacttc acagccccac ttctctccct actttattgc ttcaattccg 120  
tgctcccccc tctctctttc tctgctcttt tcttttcctc cattgaagca tccttccaag 180  
cttcttatcc aaggctcacc ttgggtggga agctccttct tccatggctt attcctact 240  
ggatggcgcc tcctctcacc tcttctcctt tgtcttccgc tgcattcca tgggtggaaaa 300  
tcaccattaa gggacctcat tgaagctcag agatccatcc tccatagaag cccacaagc 360  
aagcttgcatt catcccgctt cagattctat acaacgatta atacagaacg ttgcattaa 420  
tcg 423

<210> 28907  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28907

cttgtagtgg aattcttggg aatttgaatc atgatattag ttgcagtc aatggacctt 60  
tagctaaatg ctcaatactt gggttgttca tggaaggaac atcacaggtt caccacaaa 120  
tatgtataga atatgcactt gattcgtaat ttcaagtatg gctattatca tgtttttaca 180  
gttttgaaaa tgttatcatt ttgatgtcaa agtgtaaaag tgttttttaa aacattttca 240  
agacttttac actttgcacc aacatcatct aacttgtatc cattcaactt ttgtcaaaa 300  
tcgagaagaa ataaaactaa caaaaatcaa gaggaatgga gtttattttt cccatttcaa 360  
atccaatgca gaaaatttgt atgtaaaatt ttttcttgaa cccaatagca tntaatttgg 420  
ttaatatattc taca 434

<210> 28908  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 28908

tactacgctt gctatTTtata gagaaaacat ttataattgc ctatattgat taaatctata 60  
 acgttatcga ttattttcaat gaagtaattg attatattat ttaagtaatc gattacagtg 120  
 ttcatccaac atctagaaaa cacctcaaga ataatgtaat tgattagatg acctatgtaa 180  
 tcaattaaag tgttcttggt cacctctgaa caacttaaat gagagagaag taatcaatta 240  
 atccacttgg taattgatta aagcagagac tccaaaaaaa aatcaatca ttgtgtcaaa 300  
 caatagtgtc gcaatctacc cttcggcggt cgtgcgaata ggccaaaata gatgggccga 360  
 agcatttgtc tccaagggag ataatgagcg gagtgccac caacgtttat tcgaggacaa 420  
 agttagtgtc gcaacctac 439

<210> 28909  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 28909

gcgagtttga cacgctcagc ccaaggcatt tgatattttc atattcttgt tgcaatgact 60  
 tctctgattt agaatagggc ttaacatgcc tgtctcgcta agcacattaa ggttacagtg 120  
 gtccaacctg gtgagctctt actggcggtc atcttgttta atgagtcacg ctaagcgagc 180  
 catgctcgct aagcgcaatg agctctctat tagagaataa cgcttaacga gccatgctct 240  
 cttatccatt gaggtatttc aactgagcga aggtgactgc cttagaccaa gtgtttatca 300  
 ttagttgaca cgctaagcgc cttctgatgt tttctgaacg cgcgcaaagc 350

<210> 28910  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 28910

tataaaacta agctattatt ggaacattac acccaaattt aatttgattc ttactatata 60

ttaataacaa aacaatacag ttttttttta aaaacaaaac gtaacttttt gagtgacatg 120  
tcttcaacga caaaatacac aaaaattaaa aacttgaata ataaaattta caaaataata 180  
aaagtttctt aataaaatat ggaattaaac cttccatcaa tttcttagaa actagagtca 240  
tatagttgtc atggatgaca ttcagagtcc tataactaat attaataata taagaaacta 300  
agaaaataaa ctttatatat gtaataataa caatagttta aattaataat taacctagta 360  
agcacaagtg aaaggatcga agacaaagtg attggcgcca tctcggggta gcgtagtaca 420  
gctcttatgg aattatct 438

<210> 28911  
<211> 326  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28911

catcangcat catcaagagg aagggagaag aaacaccgct aangcaggaa agnnccgcca 60  
gaaggcaaaa ctctctatct taatcaatta caaccttctc gtaatcgatt acacaagttg 120  
ttcgaagctt gtagagttat gtctcgtatt gtgtcaatcg attatagcct tctcgtaatc 180  
aattacacag ttgtttttaa gataatgatt gatttattta ggagtctcta ctttaattga 240  
ttaccatgtg ttataatcga ttacttctct ttctataagt gtaccaaag tgaacaacaa 300  
tactcttctc gattacattg ttcttg 326

<210> 28912  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28912

aactcaagct tgtaggctac atttacaacc atacattggc tnngatcact atgaggaaat 60  
tctcacaaaa aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa 120  
ctttgcaaag attgcataag caaaaggcca atcttataag gatgtttact tcagatgaat 180  
ggttgaagtc taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta 240  
tgccatcatt ttggaatgat gttgtctatg ctttaaaggc tatagggcct cttgtaagt 300

tggtgaggtt ggtggataat gaacaaaaac ctgcaatggg ttccatttat gaagcaatgg 360  
atagggccaa agaagcaatt catagagctg tcaataacaa tg 402

<210> 28913  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28913

gtgttatgtg tcgattntag ctatggtttc atttggttat ttccaaactc atttaaagag 60  
gacttgcaaa gtaaataact ggttgaaact ttatttttca atggttaacc gaggttacag 120  
cataaacgat tgattgaatt ttatttttaa attcattaag gtagattacg acacaattaa 180  
tcgggtgaaa ctgcgtttac aatgataaaa gggagattac ggtacaatta atcagtcaaa 240  
acttgcttta caatgaaata aaattactga tggaagaaga atgaagatga agatgtgaaa 300  
agcaagagtg gaccactaag ggtgcataaa atgaattcaa aacttcaaaa ataaaaacta 360  
accggtcgat caacgaagaa cgggtgaagaa cggacgaaga acgatcatgg aaacggttatt 420  
gaaacgttac cg 432

<210> 28914  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<400> 28914

tttgcggtga tgattatgat attcaataca aatttgtttc ttcaaagtgc atttttgatg 60  
ccctctagag acttgatcat gtaatgagag gtgaatgttt catcctgtcc attcctcact 120  
tcatttttct caaagaattg aaacgtgcct tgcattccag tccaattttc aaatcataat 180  
ggatgtcact tcagcaggat ttgactagct acccaaattt ctagattaaa gatggcttta 240  
ttttcttcaa gggagctctt tgggtgaacc cgcacaacc ttcatctcg gccttactta 300  
caaaatttta ctatactctc attggtgacc atttgggcat caaaaagaac cttcatcgtc 360  
tttagtcaaa tttcttctgg aacaccatga cctatgatgt taaagaattc atctgacact 420  
ctaacac 427

<210> 28915  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 28915

ttacgatttc aaactccaca aataagagat gctttattat aattaggtga atttaatgat 60  
 ggtcttataaa taaaaagcga agcggattgt ttagcaactt atgaacttga aaattttgag 120  
 tttttattaa gtatgactat ttggtatgac atattatttg ctgtaaactc cattagtaaa 180  
 aagttacaat caaaagatat gagtatggat gccactatag aacaattaaa aggtcttatt 240  
 ttatttttatt ttgtaaaaat atagagaagg tgaatttgaa aatactataa tttatgccat 300  
 agaaattggt aatgaaatgg agatagaacc taagtttcat gaaaaaacat gtagtttgta 360  
 gaaaaaaaaac aatatgatag aaatattgat aatgaagttg aaaatcgcct aaagaat 417

<210> 28916  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28916

tgacactatg aaactcagct tatataagta attgttatgt ntcttaaatt gtttttgtat 60  
 gttttgttttt ggtaagctta cccttgtgtg tggcacatga ggttgtgaca gtgatgatct 120  
 taaactttgt atttgtgaga gtagctagtt tggaggttga tcatttccat ggagacatca 180  
 tggatgggca agcttggata tgaaaatgca atccttcttg tgttgctctt cgttactttt 240  
 atttatattg ctgattgact tagattttag gtagtttatc tttacaaagt tgtttatgct 300  
 tatatgtagg ttttgaggaa atttgagtta ttatgggtga gtgcgtgtgt gtctatatat 360  
 atatatcatg tcatgtttta atttggagct gtgcatttta gcctttggga c 411

<210> 28917  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28917

tctaaattag tgtacctttc tattcgcagc tccggccttg ctatcctgaa agaagtgtat 60  
 caacagctttt tcattctttag agtggggcgcc catcttacgg cagtacattt tgagatgggt 120  
 tttgggacaa gtcgtccctt tatacttgtc gaagtccggc actttgaact tcgggggaat 180  
 aacaacatcg ggtactaagc aaagatccgt catgtctgca aacggatagt ccccaaattc 240  
 ttccacagcc ctcaatcttt cctcaaggag atcgagcttc ctcttttctt cagatgccgg 300  
 gggcggccct tccatggaca aaactattgg cgaagctgcg atgttgggtt gaggcaacgt 360  
 gcctggcgcc ggcccttcgg ggatcggngg atagaactcg acatcccttc gagcata 417

<210> 28918  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28918

gcacgtatcg gtcaagtgtg tggaccacgt tgtattcatt tgctcatcga taatggttcc 60  
 agttttaaacy tgatgccccaa gagcactttg gagaaattac cattcaatgc ttcccaccta 120  
 aagccaagtt ccatgggtgg tctgtgccttc gaaggcaccg ggcgagaggt taagggagag 180  
 atcgacctcc ctgtacagat agacctcac acctgtcaag ttaccttcca aataatggat 240  
 attaaccccc cttacagctg cctgttgggg cgcccggtga tccactcggt gggagttggt 300  
 ccctctacac tccaccaaaa gttgaaattc gtagtggaag ggcactctgt catcgatatca 360  
 ngcgaggaag acatcttggg aagctgcccc tcctctatgc cttatgtgga ggccgcagag 420  
 gagtc 425

<210> 28919  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28919

tattcaatta tcaataaaaa tcctataaaa aaacttgtga atgngccac aaagacaatg 60  
 tgataagcaa ttatcactca actaatcact aatcatgcaa ttttaattaaa acacattctc 120  
 ttatttaaataa aaataactcc aaattatatc acaaaatcat ataacttttg agttgcaatt 180

tttggggtgt tacgacctag gtctctagat tcttgatggt catacccgag taggtattcg 240  
atcaacatac atacatgtac ctaagtcccta ataagagatt taatagggtta atgtagattc 300  
ccctaagatg tgaaaaagat gatggcactc ataaacaaag agggaggggg gggggggtga 360  
attcctataa aanattaata tggaattaaa tt 392

<210> 28920  
<211> 425  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28920

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ttgttgacaa atagagaata gaggatagta cacactaata ttacaataat aggaaaatgg 120  
aataattcat gtaccaaata aatgataact catatttgat gtgaaaaata tgttacccaa 180  
actgtcgagc ttgtaaatca acatatgata ttttaactta atcaagtga ttttaagtta 240  
atataattgt gttaaatatt ttgataaaga attttgatag ttataatagt tataatgtga 300  
tttttatata aaaataataa aaatcattag tcaatctggg taaagaaaga agacaagaca 360  
tagaggttac aagtttaaat tctccaaaac gaatatttca nacaaaactt ataataaatt 420  
aacat 425

<210> 28921  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 28921

acatgaaaat tgaggaacca aaccaaattc atatgggaga ggcgtgagag ctaacgaagt 60  
ttctctgcta cactttgaga tggaaattca attgcagcat ccgaagaagc acttgagagc 120  
gagcacatca caaggaggcc aagggagaag caacaaccac atgtcccaa gcaagtatgt 180  
tggggtgagg caaagagcat cagggaaatg ggttgctgag atcaaagaca caacacaaaa 240  
gataagaatg tggcttgcca catatgagac agcagaggaa gcagcaaggg cttatgatga 300  
agctgcatgc ctcttcctg gatccaacac tcgcaccaac ttcatcacac gtgtgttcct 360  
tgattcccct ctgcttcgc ggatt 385



<210> 28922  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28922

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 gcatatttat taatataatt caatcatttc atgcatgctt tcagttgtgt gtttagatca 120  
 atgttcccat ttaatagtct ttaaacttgc aaattttgta tcttgtctgt aggggtttgg 180  
 atcccctagc cactctcttc ttttactaa gtaatatgcc ttcaaattta tcagtgaat 240  
 cctaaaccat attcaatctg taatagttta atgtgtgtat atatgtgtgc aactctttta 300  
 ttactacctc tttgtttttg cctcttcacc tttcaaccca tccatctaata gttgcatgta 360  
 ctctgcccta aattggatta tgcaatatga tatttatcta tgggtggatat tgatctggag 420  
 tctcttacct at 432

<210> 28923  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 28923

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 aagggtgtgta gaataaacct ttgtagttcg ataccatttg atagctcgat accatttgaa 120  
 aatcacaagt ttgccatcat gcttagcatc atgagtagct agacatcaaa aatactagaa 180  
 accccgtgag atcaacatta taagcaagggt tctaattttt catgataaac acaagtctag 240  
 ctatcatcct atgcatgcta gttatcatat catcattcaa gttctataac tagcatataa 300  
 cacacaagca tgcataataa atataaaact tatgcaatgc aagcaagcac atgaatatgc 360  
 acatatcaaa tataacaaaa caatgttcat gagcttgctc tccctacttg tgtgcttctt 420  
 ttgtccaaga att 433

<210> 28924  
 <211> 429  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28924

tcccttgtga tgggatcaaa ccttgcaatt gatacttgtg tttctcctgt gcgagggtgga 60  
caaattttgt ctttttacct atctgtatca tttcatttcc ctttctcttg gctcaaattgt 120  
gtgtcattgt cctgaattta tatatttatt tactagtcag acgctcagtt tagttacttt 180  
ctttgggtcaa gaggctaagc cctgttttaa atgcaactct agtttagatc aggccaacaa 240  
tgactaaagc taaatccaat aaatctcctt aacccttcaa agtattcatt ttgatccaca 300  
aattaaaatt taaaattact gaacacaaag tcccgaacag taactataaa agaattatcc 360  
ctataaaaat attattttgt gaattattat taattntttg gtataatcaa aatgtataat 420  
tccattccc 429

<210> 28925

<211> 353

<212> DNA

<213> Glycine max

<400> 28925

aattgaggaa cccaacaaaa tctatatgtg tgagttgcca gaactaaggg aggttctctg 60  
ctacactttg agatggaaat tcaattcccg cattcaaaga aacacttggg agccagcaca 120  
tcaaaaggaa ggtaagggag aaacaacaac caccaaacca aaagccagta tggtgggggtg 180  
aggcaaaaaa catcagggaa atgggttgct gagatcaaag acacaacaca aaagataaga 240  
atgtggcttg gcacatatga gacagcagag gaagcagcca gggcttatga tgaaactgca 300  
tgctccttc gtggatccaa cactcgcacc aacttcatca cacgtgtgtc cct 353

<210> 28926

<211> 426

<212> DNA

<213> Glycine max

<400> 28926

aggaatttgg acaaagacgc tagtatcatc gttcttttgt caaggtagc ttatgaactt 60  
ctccaacgtt gataggacag tgcatttcta gtatcatcgt acaattgtca aggttagctt 120  
caattccccg gtgggtgatc atgaaacca agaattttct gcctctaacc ccaaagggtgc 180

atttttcaag attgaggcgc atgttatact tgagaatctc tttgaacacc tctgccaaat 240  
 ttgccacatg tttggccatg ctatgagact tgacgaccat gtcattcaca tagacctcga 300  
 cattttgtca tatctgttgt ttgaagaccc agtccataag cctttgttat atggctccta 360  
 cattctggaa gtcggggcga ccatccataa gcttttcgat gatgggaaag ggatatgcat 420  
 ccttgg 426

<210> 28927  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28927  
 tataataaga aagtgaagtc aaaaactttt aactctgtat atttagtttg gaaggttatac 60  
 ctgcccattg atagtaagga tcgagccttg ggcaaattg ccccaaattg ggaaggaccg 120  
 tttaaaataa ttcagatcta ttcgaatggt gcttatgaat tagaggaatt aaccctcag 180  
 aaacgtactt tgagtataaa tggtaaataa ttgaaaaaat ataaaccaac attgctcgaa 240  
 gttaaaataa gcatagaata gacagaagta atggaaacat aaaaatggcg ataacagtaa 300  
 aattgccacg aaagggcatg tgtcaatatt acatcaagag tagaatcgaa atacagaatt 360  
 cgaaataaaa aatcataagt tctactaatg catgactaag tcctcatata gtttcttca 419

<210> 28928  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28928

ntatgatcaa atntttttct ctcttntct ctcaacctgt tttcattctt ctctctctt 60  
 tcacttctgt tcttccaatt tcttgcaaa aattttgtgc cttttccatt ggtgatgac 120  
 atggaaggct aaacacttaa tcaatcaaag gatccactcc aagcaaggct aaatttgaat 180  
 ttttgtttag tatttctaatt ctttctgaat gttcatctt ttttcaatc ctatttttga 240  
 ttttcatgag tatgactatg cttatgatta taaatggatt acgctatcga ttcatttcct 300  
 aatttcgaaa tttaatcaga gattgtgtgg atgatcttcc aacctaatat gcgatctcta 360

acaattttaag gattgattcg attgaactat ctctaagtga ttagactg

408

<210> 28929

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28929

tatcccaatg ttgagaagtc tatctcaatc aaatctttgc ttacaaaagt taaggttgaa 60  
gcttctacac atgtggtaca tgaaaaacta agtgagatga aaatggataa caataatgca 120  
gatgataaaa tgccatagtgt tgaacctgtg aaatatgatg aacctctaata ttagataggc 180  
ctgaaaatat aaatattgag aaagaaacta gacaagacag gcaagaaaat gttgtgcaaa 240  
catttgaaaa tatagttgga accaagtcta gcaatgggtt ggccaggtaa gtctttgtat 300  
tcttatgccca tcttttcgtt gaaaaagtat aatttagttc attagttaaa taatactaca 360  
ttatatgtac tagtgtattg taaacatggt ccattgtact ttnaaaatta tttaata 417

<210> 28930

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28930

agttgtaatc aaccgttagt tagttatagt tagttgttgt tagttactta tatttttagtt 60  
ctacaaatac atgcaagtaa agcttctatc aattcagatc aaacaccttt gtgagttcta 120  
aatctctttt cctctttgtc aagctntctt caattcgtca ttatgaatca attcaatttc 180  
gttaacaatc cattccccgc aacaatatgc ttttgccctc ttatattcct cttccaacca 240  
acaacgttta tgactcctaa tttttcaatg ttgttaataa ataaatgcaa attcctaaat 300  
gacgtttgca cacctcttcg atcttcgtga tcatcaatac tgattacaga taacgaggaa 360  
acacgacaac aactctcctt tgtcttttga agctccttct cattntcttt ntctcaccaa 420  
tctcaaatc 429

<210> 28931

<211> 292

<212> DNA

<213> Glycine max

<400> 28931

aagaggaagc atatcaagga gagaatgcaa attttcaatc cccgagaaag aaacgaagaa 60  
gaaaggaaat tccccatcta agagtgggag acagaatata gatatgaata gaaagaacac 120  
tccaatcaa agaatgggag aaggaaaaaa agaagtataa tataagaaag ctcttggtca 180  
aagaaactat aagacatgtg cacaaaggtc ttttgaccgg acgatatctg aacaatacag 240  
aattgtcacc acatgaacaa taaaagaacg aaaggaaacc accacctaaa at 292

<210> 28932

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28932

tcaatacaat gattaatgca gactatccac aagaatctct gtattgaatc tcaaacagga 60  
atctaagggt cactcatgat aaacattaac tatatgcaca acaatagtca ttaatcacat 120  
aaaacaacgt aaaaataatt gtaacataaa ccaagccaag aaaagtacat gtgataatgc 180  
tcagtatcaa tagtgtccaa caacgaatac cgtgaacgat gacgcaaaca acaaaatgat 240  
aagggtctgc gagcttatga tgcaacaaat aagggttcag tatgcttcta tagaaatgac 300  
tgacatatag ataagacaaa aacatcaaat tntccaatca taggaacctt tgaactagaa 360  
tggaataaac angttaataa gaacgtagcc aagtttctga gtgcagatcc aataacatga 420  
ttctgcatga gattatg 437

<210> 28933

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28933

acacaacaac acagaatcta ggtgtccaat actctctttt ttcaatgggt tttctagggt 60  
tgaaaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca caccagtcca 120  
taacatctat ttagacttgt tcaaactgga tttacaccta aaatctcacc gaatcaaaat 180

ttgactcttc aacacctaaa ttgcccctaa aaatggctct ttgttcactt tggtcattta 240  
 tttttctctc tagcacagtc caagctttct cataagtcct aaatgacatt tcaagctagt 300  
 attaactcac tttaacctcc atttaccaca gaattcagac ttagccttcc aaccctcana 360  
 gtctcactct ttttccactc ataacatcac attctcattn tctaacccta ggtagttct 420  
 acccttcgtc 430

<210> 28934  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28934

ntgtatttag gttggatggg tgggtaatta acttggtgat atagcaggaa cttattgtta 60  
 tgctttgtgt gagaatatat gtatcaaaaa caaatcattt ctgatgttgt atgaatggaa 120  
 aacattgatg tttcggaact aaacattggt tgtgtcaaca atgttagaac tgaagacgtg 180  
 gaagatgcct aatccctcaa aatgtcacag ttttgatgat aacgaaaata ttaaactttg 240  
 atggtcaatc taatgaggct tattaagtgt tacaggtttt ttttgcgtct aattatgata 300  
 ttggtattgt atttcttacc ttagatgcaa aatctattnt aattggacat atgctcaatg 360  
 taaccaaag atggattcag tccaatattt tctcaagtta gacttagaat ataccgttct 420  
 ata 423

<210> 28935  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28935

tgaatataat gaaacttgct aacttaacan agctaagttt cacttattnc tcttaagggt 60  
 ccttcatcca ttaaagttga tagcgctaca catggccgtt actgtgaaaa gagagatagt 120  
 gggaactcta aacacttttt gtagcatatc ttcatagaac tacaacttgc cagtgtcgtc 180  
 ttgcgctcaa agttgacttt tagtgtacaa atcaaata acgttaacag cataagacaa 240  
 aaggaattaa gaatattaag acaagacaat ttaaactctc ctttttgtgc gttgtggcac 300

gagttgctta ttgaacctat ggacgctact ttctgatgat tgctttttgt acttaaggat 360  
agagtaattg tttcattgcc tttgtactat gagcgaagtg tcaaagcact tttcttctga 420  
ggactggatg 430

<210> 28936  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28936

actcggttgt gctcgtgcag cggaccataa aactcagctt gaccaaacct actctcataa 60  
cctgttcctg gtgagaatgc catccttacc ctcgagacca aaaaaagaaa gagaaggcaa 120  
tttccatcaa gaggaagcat aaaaggagag aaagaaatTTT cccatcacca gaacgaaaag 180  
aagacgaaaag gaaattccca atctcagagt gggagaacga aaaaagaaca gaacagaaaag 240  
aacactcccc atcaaagaat gggagaacga acaaatgatg caacaaagaa gaaagctcct 300  
ggTcaaagaa actagaaaaa atgtgccgat agtcttttga cgggacgata tctgaacaat 360  
acagaattgt caccaaatac acataaacag aaggaaagga aaccacgacc taaatgggtc 420  
tgtctccttc taataccgac nncaaattccg tgcgcn 456

<210> 28937  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28937

taatcccttg angactaacg gtaggagatt tgccctttat tcagctaagg actactttcc 60  
ttagcaccct tatgttcaat atgtcggatt tgccctggag atttgccctg aattttctcc 120  
tttgaaaact attttatttg gaaatccttc ccaagacacc attgaaccac tgatggaggc 180  
tttgaggagaa gattataacg atggacatga gataaatgac tcacggcagt ttattgaagg 240  
agtattggat cttgaaaaga gaatcaatag actagatata tcgacagaaa ttaaataata 300  
caaattntgt cattgttgaa caaattatta gcttatagac caaatcttta ccatttgata 360  
atatgtgtta cttatttctg atacgagcat aataaagtga catgaatgtt caaaaaatca 420

aactacaa

428

<210> 28938  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28938

ntgagctcaa tagctccaac ctcatctata ccccatatTTT agaatggcca aggtgctacc 60  
aagacgttca aaggtacggc cggagcattg acattatcgg tgaaggcctg gcacttggtg 120  
cacttcctca catggatgca acaatagttt tccatagtga gccagtaata ccctaccctc 180  
agaatcttct aggccatggc atgcccgttg gcatgtgttc caaaggatcc ctcatgcact 240  
tctactagca tttgcttagc ctcttggca tttacacatt gaagcaaaac catatcatgg 300  
ttcatcttgt acaagatatt tccacttagg aaaaagcagg ctgcacaaac attactcagc 360  
tcagcaagaa caatttctta taatattcaa ccaattttaga atcaagaact caaca 415

<210> 28939  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28939

taatccccctg aaaatgggtgg gtatgagatt tgccctgtat tcagctaggg attactttcc 60  
ttagcaccct tatgttcaat atgttcgata aataaaaaata gttttttttt ttttgctatg 120  
tgcattgagag tttaaatgct agttgtcaca caaatgtatt acacaaaagt acctatcaca 180  
taaagagtgg ctatgcaatt tagaatgcat caagaagttt tagattgtgt ggctacattc 240  
tttggaacca aaggcattgc atggaaaaat tactacatac ccatacctaa cggaatttc 300  
tatttaccctg ctgctctttt ttgagggaga tgtcaccaca tgttatgcan gatgggtggaa 360  
gcagtcaata ttgcatcatc atcatgattt tgcaaagaat attactcagt gaa 413

<210> 28940  
<211> 424  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 28940

gtactagtca tatatatgtt acaaaacaac gaaagctttt tcgaatcgat tattgttgat 60  
 acagaaatac ttaaacaac ctgccaatta ggggttttgc ggctttttgc aaattccgcc 120  
 catgtttctg gatcaaggcc atacttgact gtaggatcag atatttgctg accttcattg 180  
 tcagcaaaga caaatTTTTga agtcaatgaa gacttaaatt gcctccatct tgctgcaact 240  
 gttgacatca cctttttttt tgcattttca ccttcagggg tatcaaattt gcgctacaca 300  
 acaaaaggag ttatgtaaca gtatgtaa ataatccttta caagtaactt aacaacaaaa 360  
 tcatgaatac aagtgtgaat tacttaccan aatatctttc catattaagc tctttagatc 420  
 gtcg 424

<210> 28941  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28941

gtgcagtgtt catgtggcca aaagaagaaa gtgcgtgttt ttatatgggc tctaattttg 60  
 tttttattcc ticaatttag attatttttg tttcatcttc tanattttaa ttattttttt 120  
 taattttctca atttcaaaaa atatttttct taaaataaat ttaaatttaa aaagccaaat 180  
 taaaagttac tcaaatttaa aagataaaaa atatatctaa atcttaaata tatcaatcgc 240  
 aaattgattt tcaattatca tgattatttt tttcaaaata tgtgtaaatt taaattaata 300  
 taatttttgt ttgtaaattg atattacact attgattcat agagaatgtt gtttagaaac 360  
 ttataatcaa aactaattnt aagtcataa ttattcaa atgggttttaag aactatttan 420  
 ataaaagttt 430

<210> 28942  
 <211> 197  
 <212> DNA  
 <213> Glycine max

<400> 28942

gagtcatgac tccacgtcga tgtatctgca agacactcct cgattcaaga ttcacgagca 60

gaattctaga tgcaacagag ccctactacg tatacgatat gtctctatac agtttaccat 120  
 ataccacatg tcacagttat gacatacata agagagactt cacatccaca gtgattactc 180  
 tctagaaatc gattgcc 197

<210> 28943  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 28943

cctgagtccc caccatagcc gtggtcagca ctttcaaacc agaatggatg gttgcagcac 60  
 ttgtttaatt ccaccacaat attcataaga gaaacctgat atttagcaga aaaagattag 120  
 tgatgatctt tgaagagaac cgaatctcga tacatgcatt atgacgttaa acttctccga 180  
 attttgccag accacatgat cataaacaga ggcaagattt cattataatg tcttctccc 239

<210> 28944  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28944

tgccctcaaag aggtccttta ttgacaaggc agccgaatga actagttccg ctccggagta 60  
 tgatagtacac cgcttttagga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120  
 gtcgtttctc cgggagcgcac gcgtccagct cagggacgac gagtatactg atttccagga 180  
 ggaaatagga cgccggcggg gggcatcact ggtcactccc atggccaagt ttgatccaga 240  
 agtagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300  
 atcctgngta aggggtcagt ggatcccgtt tgatgccgac gctatcggcc aactcctatg 360  
 atatccgttg gtgttggaag agggccagga atgtgagta 399

<210> 28945  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28945

tcgacatctt tntgtataag tcttgtgttc ctatctttcc ttttaattcc taaaattaat 60  
 tgtctttaagt ctttacaaaa cagagagcat ggggatcatc aaattggcat tattctttga 120  
 aaactcgaac aatacacact tggaggattc atgaggatat catttactat taattaattt 180  
 atactacatg gcttcgataa aaagaaaaaa aaaggaaata actttccac ggaagcaaaa 240  
 caatcaagca acctttgtca aagtttagct taagaaaagg acaaaaatga aaaatgttcg 300  
 gcgtgtggaa gtgagatgtt ttgatccctc atctggttca gccagtaatt tatttaaagg 360  
 tagcaaatac ttactcatcc attgtaaatt attaacttga taaatgaaga aataaagggtg 420  
 ttaatc 426

<210> 28946  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28946

ggcacttctt cgctttcttc agggacttca gcttcttcc cacttgggcc ttttagcttc 60  
 gggagccaat ttatcccttt tgcctagaa ttcaaccact tgtgatagtt gccggcgacg 120  
 ccattgctac ttcccctaag ttcttatct ttctttctta ttgtattcca cgcttttttg 180  
 attctctgaa gtatcctcgc attgggttca ctgaaacctc gcgcgacgaa aggtgcgatg 240  
 atctcctcca acggtgcacc tcacataggg tagcctagtt gtcttatggc caacatggga 300  
 ttataattaa tacaaccctt cgttcccatc gaggtgacgt atgggaatcc ttcacacaag 360  
 cacaacactc ctgcccctcc ttctttccat cgggggaacc agctattgga cgctcctacc 420  
 atacctgc 428

<210> 28947  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28947

cgcgaaagctt ctcttcatat ctgcctcagt gggcttatag cctaaaccat acttnccacg 60  
 aatttctttg gcatttatca ggcttggtat gtcaccgttg gctttgccca aaccatttcc 120

gggatcgtaa ccgcttccca acataactcg ggccatcatt actggtgcat cggacaagcg 180  
aagcttgcca gaaaaggaat ccacggagga aatgcttacc acctcgaaaa actggaaagc 240  
ggttttct 247

<210> 28948  
<211> 414  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28948

actcagcttt ataagagcgg gttcgggaga caaagggtcaa tttcttgta tatgcgaatt 60  
tttatttccg agtactctgg atttgggtacc accatgctct cctgatttcc agctgggaaa 120  
ttggcgagtg gaggaacgcc ccggcattta cgctacacgc ataatgtaaa cctttgcggt 180  
ttcaaaaagct ctatagttgg gcctaggctg tagagatttt ccttttgcta aggctttgcg 240  
tcttttggtt ttgaatctat aacacaagga tctttcttca tctgttctg gtctctaccc 300  
attctcattc attngcatga ttacttctat ttctgaaacg gcagatccga tgacgagtcc 360  
ccgaaaagta ctaataacctg tgaccgcct atcgacttca agcaagacat gaat 414

<210> 28949  
<211> 413  
<212> DNA  
<213> Glycine max  
<400> 28949

ctcacctttg gtctctctta ttttggttgc atgagattac atgctctatt ttcattctcc 60  
actccaagta ggctccgga tcattcttcc ctttaaaggg aggaatattg agtttaatac 120  
catcaatccg gttttgtcta ggaacacccat cattccctct tctctctctt tcttcttcat 180  
tatgatctct atttccatt tgatccaacc tctcatggag cgcattctct cgttgtttca 240  
ttaacctctc caaatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300  
cattaggatt tgttctgtc atctcaaaca aacaaatcaa acgtaacaag acaattatag 360  
ttgttggttg aataacctac cactcaagt gtatcacaca attatggctt ttc 413

<210> 28950  
<211> 404

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28950

tgcttgagaa gcttctatgg aggatggatc tttgaattta atgaggtcct tcaatggtga 60  
ttttcaacca tggagatgta gcgaaagata aaggagaaga ggtaagagga ggcaccatcc 120  
actatggaat cagccatgga aggaggagt ttgtaacgcc cagaaatttt gataattgaa 180  
aatagatggt tgatgttttt cttgtgttat ttgattactt gattaatttg gatgagttaa 240  
gggtattatgt gaattatcca tgtgtgattt tcttgatgtg gatgttgagt tatgtggact 300  
tttattgact tangttgaaa ttatgagatt tcaagtttta cttanacctg ttccactaaa 360  
accacaatcc tgaattagtt aaccgttggg tcgctttcaa attt 404

<210> 28951  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 28951

taacttgctt attgctgtga cttacagtct tcaccgggct caccttatgt gtcctactga 60  
ctgtgaagtc accctcactg gctgacagac ccgcagggtc agccatacag agatttgacg 120  
aacgccacca tgcttgctct acaatctcgc taagacgac catctatgat ggccgggtctg 180  
ttcactgcga ctgactatcc cgccatgacg ctgagatttt atctctgtac agctctctct 240  
ggaactgcca gaggtagctc tgagacccac tga 273

<210> 28952  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 28952

tcacatataa ctgaaagttt ccgtatcctg cagcatgcat catagtatct ggaatgccat 60  
cagaatttgt atggtgctac gtaaactctg atatcttcct aacttatcaa aatttaaagt 120  
ccgacctttt gacatcaaca aacacgacta cacggtggag agatagatgg tga 173

<210> 28953

<211> 310  
 <212> DNA  
 <213> Glycine max

<400> 28953

agccgtaagg tttgggtccgg cgacgccttt atcggctgac ccggcgccggc catcgatggg 60  
 cgcacccatg tggcctcggc cctggagcgc agtgccatgg cctgtctggg cgaagcgac 120  
 ggtggcgaag ccttcaggta ttgacgcgag cacatcgccg cgtgccccg actcaaggcc 180  
 gacacggggc tgaacctcga cactgtgtc cagcatccca gacaccagat cgacgtgctg 240  
 gccgtgaccg gtcccactag gaagaccacc accgcctggc ggctggaaca cgcgctggcc 300  
 aagggaagct 310

<210> 28954  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 28954

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 agaaggaaaa actctatgtt ttaatccatt atagccttat cacaatcaat tacacaaatt 120  
 atcttaagct tgcaaagtta tgtctcgtat cgatttaatc aatttcaacc ttctcataat 180  
 cgattacata attttttttg agtcaatgac tgattcattc acgagtctct gctgtaatcg 240  
 attaccatgt gatataatca attacttctt tttctataag tagttcacia gtgaacaaga 300  
 acactttaat tgattact 318

<210> 28955  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 28955

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 tatgccgacc tatgcttccg ctctgtcccg agggctacat gtgaactatg acacaatcgc 120  
 taagggtacc ttggatccct gtctggagca ttactctacg gaattccatg catccttact 180  
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<210> 28956  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 28956

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 ctctttcttt tcttccattg aagcatcacc tccaagcttc ttatccaagg cacatttttg 180  
 gtggcaaagc tccttcttcc atagcttatt ccctagtggg tggcgctcc tctcacctct 240  
 tttcttttat cttccgctgc atctccatgg tggaaaatca ccattgaagg acctcattga 300  
 agtcataga ttcagccacc tcttctctt tatcttccgc tgcattctca tgggtggaaaa 360  
 tcac 364

<210> 28957  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28957

cgcgcttac tcgtgcatac gngccatcaa ctctgaccgc ggatactata tatcaacctg 60  
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 atacacacca ttcgcccgat cggcgggaaa gaccgtcaca tatgccgaga gcccaaagaa 180  
 acctcatctt catgagcacc gtgggaaaag cacatcttct ccagagagac atgcgctctt 240  
 aatacagaac ataggcgaca atatcactaa ccgactaaag aggatatgtg actcactgat 300  
 acctgagca ccacgcttct aacgcaatca tttgaaacaa acgcggggga agctcctaaa 360  
 cggctaaacc ttagcacctc gccgaggggt ttgatgactc gctgagctat agttggcagg 420  
 atctcgcag ccgtcacaca tgctggcg 448

<210> 28958  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 28958

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tatattatct acacaaaaag tacacttctc tatattatca tagcgggtgt atttcctaac 120  
gactaaaata acttgcoctga gatgtcctaa gtgatcatct atgctccaac tgtacactaa 180  
aatatcatca aaataaacia ctacgaatct acctacgaaa tcccttaaga catgatgcat 240  
aagcctcata taggtgctta gtgcattagt gagcacaaaa ggcatcacta gccattcata 300  
caaaccaaac ttggtcttga aagcgggggtt ccaactcatca cccgttatca tactg 355

<210> 28959  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 28959

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atgtgatacg gtcttattca cctctatgtt agagcctact ctctaaagga tctttcagac 180  
tatgctgaca tgcttatgat attgaatgta ttctacgtca gatcttgctt cgtacgttta 240  
tgggtctctac ccatactcat tccttgaaca tatcctataa ttcacgaaa accgtgcatt 300  
ctctgacgag caccceaaat gtaccatac ttgtga 336

<210> 28960  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 28960

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ctttacggtg ctggaacaac taaaaaatat ctctccacc atggcctgca gcactatgac 120  
atacaccatt cggagatcct ctgtccgaat ggcaaatgat agccactgcc aaacatagat 180  
gtgctatgaa tctaaagtat caataatacg gataaaaaaa atctgttatt aatgattttg 240  
catgctagac cagaggatca gagtctcctt atcaggctca tactcaagtg aatcatgatg 300  
tcaaagagag caggggggaaa atacatctcc aactggcata gtataattgc gggctcatta 360  
tcaaactca 369



<210> 28961  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 28961

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 gtgtaagcaa tttcttatta ttactttctt gataagggtg tgcattttgc cgatgttttt 120  
 aagtacatat ctttttttat actgaagaaa aaattaaaat ggtaaattag taatttcttt 180  
 atatttgtaa gtgtgggtca aagaccatgt cagcattaag aacaaacatg agcttttagct 240  
 tcatttgaaa agttacatta aaagctaccc aaactagagg aataactaac atttcagagt 300  
 ggcaatatac tcacaatatt ggatggatac ttgcaaccag ttatctagcc tttacagcta 360  
 acat 364

<210> 28962  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 28962

acacactctg accgtgaaac ccatttgacg cccgtgctaa ccccagggag atctgatcca 60  
 cccccaccct ctgttaccga acacaggtaa ctggactgct cattgtccat gagaaaccgc 120  
 tgcagtcctg ccatgaacgc ataacacacg ctatagagac accactcatg attaccccct 180

<210> 28963  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28963

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 tgtgagagga gtagaaatgt aaaaaaatgt gaaaggagca aggagtgtgt atacaatgta 120  
 cataggaatg ggacataaag tgacttggac gtcctaccgt gcgcacaaaa tcaatgcata 180  
 aacttcgacc tatgttaggg ggaggaatca ttaacaaaga ccataagaca gctctgctgt 240

tccttacata taagaataac catgtgatgg gattcaagcc aaaatttggtg aatagtgtta 300  
 tgtcngcaat aataaacact ggctagtggc gactaactaa cggacgcaaa gacaattcac 360  
 ga 362

<210> 28964  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<400> 28964

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 actactttgt ctacactggg aaattttcag atcatgaaat ccctcacgac atgtgcttta 120  
 ttggattcct tagagagagt atgaaaatat gggataccgt tgcaagagct atcaccttca 180  
 tg 182

<210> 28965  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 28965

catcctgatg caatgaatct atgcaatgcc tgtaattcga tatttttgat agatagtacc 60  
 tacattacac acagggtacct actttctata cttgactttg gtaccgtcac actaacatgt 120  
 ataacattct ctgctgggtt tccctattag gatggagAAC gtctacataa tgttgatga 180  
 accctacaat gattaccagg tctattactc aaacgtgacg ccctacctag ag 232

<210> 28966  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 28966

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 tgtcttagat tcagggataa ttgttcagta tgcttccgga cacgcataca attcataccc 180  
 acagaagttc gtttcctaac tgataccgca tcttgccgat cacatagact actacttgca 240

tgataacgat atgttcatga acctcactaa gagtggaacg atgctctcat gtgactg 297

<210> 28967  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 28967

atccaaagaa gaaaaaaaag gactcatctt atataccaca aggtgaagtt taacagctaa 60  
gaactggaga caatatcacc tcaatatatt gttaattaaa agacatacat gagaaaccat 120  
actaccatta tctagttttc tagcaccaac caataacttg agccactaga tccctaattg 180  
atggcatcat attaccttgc tctattattg ataccaaact tcaatacaaa accataagtc 240  
aagcaaacct tctttgatcc taaagggtatt tttgggttga aaattgtatg caagatcaat 300  
ttaccagcaa gatcagctct aacattcttg ggatgatata aaattggatc agcaaataa 360  
cagattgg 368

<210> 28968  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 28968

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tgtcggtaaa tcaatggcaa tgctaattac atataggctt tctagttttt ctttgatcat 120  
gagcaactac tcatcttagt ctagagggtta tgatgtaagt gtccaattgt acctctttct 180  
ctgttcttaa tgaaattcct cagcattatt atgttaatta attctcttcc ttgttcttat 240  
tgttcaatcg gaaactaatc aatcctattc ttaat 275

<210> 28969  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 28969

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cacatttaca ccaaataaaa ctactactat cacaatggcc tagaaaatag attttgttga 120

ttatcttttta ttggagaatg gagacagaag atacaaatct ctaggaaact aaagagacag 180  
 ggggagaaaag gctaaaaatt ggtgatacaa tattagttgc atcacaatct agtaaatca 240  
 atataagtgt tcatacacta ctacaaaaag cccctttttaa gacacgtgct ttacgtcggt 300  
 tgta 304

<210> 28970  
 <211> 150  
 <212> DNA  
 <213> Glycine max

<400> 28970

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 tgctctctta tgattactgc catgttgagc atgcccacgc actgtatatc agagcttgct 120  
 tatgatgccc gacaagtaac agagcttact 150

<210> 28971  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 28971

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 gaacgccccg gcatttacgc aacgagcata atgtaaacct ttactgcttt aaaagctcta 120  
 tagtcggggc taggctttat agtttttcca tttgttaagg ctttgtgtct tttgtttttg 180  
 aattttataat acaaggatct ttcttcatct gtcctgggtc tctaccatt ctcattcatt 240  
 tgcattgtttg cttctttttc tgagactgca gatccgatga cgagtcccc gaaggtacta 300  
 atacctgaga cccgcctatc gacttcgagc gagaaatgaa tcagacggaa gatgaaggaa 360  
 gtgag 365

<210> 28972  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 28972

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cagataaagg attaccaaag aatgtatctc ttttaagaaaa aatgatataa tgcgtaatta 120  
 aaatataaaa aggacaaatg ggggtatgaa tagcaagtgt tcaatataat ttctacccat 180  
 aatttattat taaaaaattg tacccattat tctctctct caacctttct tcctttttta 240  
 tatttgaaga attatttcac aaaaataata atacatttca caaactaatt tcttaaatat 300  
 tactataatt ccaacgatga ata 323

<210> 28973  
 <211> 118  
 <212> DNA  
 <213> Glycine max

<400> 28973

caacaatgtg attcgaagat tagatcatac acctcacaca ggcaaccct tagataggag 60  
 ctatcatacc cacgtgacaa tcgcttacgc gagatatgac tttcctgccca ttttacct 118

<210> 28974  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 28974

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 ggatttatat gtatgtgatt tcagggtcat tggagctatt ctcatagtaa tgggacttta 120  
 ctcagttctg tggggcaagc acaaggagaa caaagagaaa gaggcagaga taactattga 180  
 ggtattgaag tggtgttttag aaaatgggat gacgttggag actatggtaa aagatgtcga 240  
 aacaaacaat gacattgaca tgcaaaaggg tgaagcctca agagagttaa gggtagccat 300  
 tggtgttcca aaagtttaaa gtgggttaaga ttagaaagga aagggatgaa taataatag 359

<210> 28975  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 28975

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gtatctctcc ttacgtatac ggacctagag gagctaataca ttctctgtat acaaggagat 180  
catctattga gaggacacct tgctgacagc tatgatcggt gtcactctta tgcaacgaat 240  
gaccttctct catgagaata ggacgggctg gccttcaaaa cccaaggaag ataagggtaa 300  
ggccatagag aaatacacc ctaagactag ttcccaagaa aggactagca acattaaatg 360  
cttcaaagt cttgggagag gtcacattgc ctctcaatgc cccacacaga aaaccatgat 420  
catgaggggt caagaca 437

<210> 28976  
<211> 336  
<212> DNA  
<213> Glycine max  
<400> 28976

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gattgtatcc ttgattgctg tatatgtggt agatcccttg ccattgggtg ttgatgtatt 120  
gaacttctcc ttgattgttg tagcattgac aatcatgttc tcaattatct gtatagcctc 180  
tcttggaatc ttgagagaga ttttcccagc agctaaagca tcaagcataa gcttgctcag 240  
agctttcaat ccctctagaa acatgttgat ttggagagct tcatcaaaac cagtgtgaggt 300  
tttctaaga gaacctctaa atctttccca agcttt 336

<210> 28977  
<211> 235  
<212> DNA  
<213> Glycine max  
<400> 28977

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ctactgtgag aagctagata tatctgagag agagcccca cataataaac aggtacaacg 120  
tttcgttact tgaccacttt agtgtcacac ctccatggat accattacta tgcgcttttc 180  
tactaccagc atggatagcc acatgatcaa cgtatgaagg accctctaata gattc 235

<210> 28978  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 28978

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ttccacatca taagtgaac ttttggggga aattctgaaa atctggaaat cagttgaaaa 120  
gctggtaatt tttccatcac tgtgcaatgt cttatgcaac acctcaccat ctttacacaa 180  
ggtaatgcta ttgggggggct gttgtgcaa accaacatta acatcatcca taggagcaga 240  
aaatgggaac ccaatagtga aatttgtaac actttcatct gaggatttat gcagatcatt 300  
tcccataact gcttcagaag ataaatttgc caacttagta ctacattcaa cattgtctag 360  
tttact 366

<210> 28979

<211> 262

<212> DNA

<213> Glycine max

<400> 28979

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ttaacatatc gtgagttcta ctcaagagag aattcaactg ctaagacagt aattacctta 180  
tatttgtccc cgtggaattc atcaccatct cttgcattct tatcctgcat aagctgtagc 240  
tccttttagct tggattcatt at 262

<210> 28980

<211> 278

<212> DNA

<213> Glycine max

<400> 28980

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acgaatgtgc tatgagggga cgtgactcgt ctatacgtc gaaattgagc gacggatgct 120  
ctctagaggt gcgaatggtc ataggtatca acacggatgt ccgatacgtg gacgtagtag 180  
atcgggacgc tcgaaatgga acagcgggaag ctctggagac tatggaatgg taataacatt 240  
ccactatgat gttcgacttg ggaacgtaat atatctag 278

<210> 28981

<211> 590  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28981

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agacatatatt tcttcacttg gngactcata ctggcacatg aagctgagca cagaccatca 180
ctactgaccg acacgtaggt ctattacaa cagacacatt acataattat cactctctat 240
gcactcgtag atgagcgtag atatgactac tctataaact agatgcatat tagtgagaca 300
ctcgtatgca gcgtagcaca tgtgtatctg atataatacg gaacactact agagacttcg 360
aactgtcctc ctcttgaca cggaaccaag agctactctc cttccgatgt ccttgggatg 420
aatcaggact aagaccatga gaccgctctt gtgttactta tatatgaccg gatcccttga 480
cttggatgac actcctatgt gccaatgccg ttatctcagc tgtaacatac actggatgaa 540
gccactatct cactgcagcc aatcaagatc ttgcgagtga ccatctatat 590
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<210> 28982  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28982

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ctgaatagta aaattcccaa ctttgacat catctcagaa aatacaatca tacatacaca 180
acatggatca ctatggactt tatcaggctt gtaacgtggc tgggctacaa agaattcatg 240
cttttttctt ggattcaaag catgggttat aaactctcga gttaactcgc taactcttac 300
aagtttatga gtccacttac cctctacgag ttgactcgtg tgtaaaactct cttnttagta 360
gactc 365
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<210> 28983  
 <211> 276  
 <212> DNA



<213> Glycine max

<400> 28983

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cattattatt tctttcacta cattgagaca atatcatcat gcttctgact caaggctcaa 180  
atctaggggc taagggtgaat cttccatata ttattogeta tagtatggag cactactcca 240  
ccgatctgcc tatatccacc gcagcatcta cttggc 276

<210> 28984

<211> 327

<212> DNA

<213> Glycine max

<400> 28984

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cactaattgc ttgtattgag agattgtatg cttgattcgt tcgaattatg gtagataccc 120  
ttgacattcg gccgatgatg tattcgaaca atctgctatg attcgtctcc gcgtaccgcg 180  
ttgatgcaga tgatattctc gataccgaac gattttttaa accttgctac agaattagag 240  
acagctgacc ggctctggaa aacatattgt acatactgat gcaactgatg cgctgtgtgc 300  
gttgaacatg gaaagattat atctata 327

<210> 28985

<211> 353

<212> DNA

<213> Glycine max

<400> 28985

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cacctgcata tcacacagac tcttagatct atcctgatac gtgcataact gaacacactt 180  
gctctatcat gacacgcata catgctcatc ttgggtattct tcatatctat ctatacacac 240  
acttcataaa taatgcagac tcttgacaca ggagcgtgct gcattagata ctctactttg 300  
catcactagc cattcatcca cctaaagcct gatgctgata gcggtatatc act 353

<210> 28986  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28986  
  
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 ggcgtcgaac gatcgaactt tcacaacgtc gcaaccacag aacggacaat caggccagac 180  
 tatggcagcc aagctaacaa ggactaatgc agaaactctg ctcaacacat caaccgatat 240  
 cacagcgttt ctcaactaaa gaccacagta acaattcctt cgatccaatt c 291

<210> 28987  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28987  
  
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 tgccttctac taccgtgccc atatgactac tgcttacctg agatatccag ttgcttagct 120  
 ccaactatgc tctgtgtcgg tgcggaact ggtctttcat atctacctga cgatcgtgtg 180  
 caaaccttat atcatagacg agtccgagat cctctagccg actgggtcat tgtatcctct 240  
 gcctactatc tatagtgtga tgaacttgaa catcatgatt tacgggtcacg agac 294

<210> 28988  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28988  
  
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 agagcaagct tatgctgcta tttccttaca aacgttctct tgcacaagac atttaaccga 120  
 aaaaatgcac ccatatacaa tcaaggcagc ttcgttacct agattattta cacgtacctc 180  
 caaggtgtat ttgttactta catcacacac atctccttgg ctaaattcac atacatgcat 240  
 actcaaagca ttttggggca ccaaaaattg cacatgtgca catcttggca tttctaatac 300

ctatacatat gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 360  
catgctc 367

<210> 28989  
<211> 523  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28989

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actgtgaggg gccngcangt atgcttatct tttcaatacg gacacagact atgcagattg 120  
agagctcgct cacattgttc gctatgctcg acaatgaacc atgacggaca acagtcagaa 180  
acattgactc acttatacga catgacttga agagcatacg tacctactca ctatttggcc 240  
ataaacttat tcattcctga agatgatgac atatcatcag aatggagact gaagatgctt 300  
atgacatga tactaaccat acccggtgat aaccgcttaa acttttgatgat accatagtag 360  
gtgcgaacat ctatagccct gaaatctact tgctcataca cgactacctc atgctctatg 420  
tatcacacat gctttatgtg tgatgctcta agaacctcta tagaaagagg tgcggctgct 480  
gttggtaaat gattgtgtac ttatggctta ttacgatgca cag 523

<210> 28990  
<211> 127  
<212> DNA  
<213> Glycine max  
  
<400> 28990

ctaattatag acatacctgc gataacttac taccctcatc taaaatatta acaccagcca 60  
ctttcttggtg ccactagatc cctactggat ggcatcatat tacctcgctc tattattgat 120  
accaaac 127

<210> 28991  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<400> 28991

aactttacca ttgacctcaa atccaatact ataataaaaa actatcgctg ttgccacct 60

acaactgagc tcacgtactc ccacgtagcc catatcctca tttctctgaa caacgggtcc 120  
ccatcaatcc taccaagctt tcacaacatc caagcaaaac aacattgaaa cagcacaagc 180  
tatcacagcc tatcaaaatg gaaccgtgcg ttaaattgtgt tcacacatca agcgga 236

<210> 28992  
<211> 313  
<212> DNA  
<213> Glycine max

<400> 28992

cacctctata atcgtgatgg ctgtctcaga gcgatagtcc tctgatcaag aaacgagcat 60  
caactaatgt atcgcgtcaa caaactaggc tgttctctgt tatggatata gccattggca 120  
aagtggcgcg atgaatagcc gtgctcgatc taatgtctac ccattacata gttggaactc 180  
aaagcaccca ctagatctcc acagaaacct cacttccttt gtgttatctg aaagtccatc 240  
tcgctgaaag cctagtccgt tccgcaatgt catatcttag acctcactat atgcctcatc 300  
ttgagccatg cat 313

<210> 28993  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28993

cgagaaggag gaaaggatgat tggagatgcc acttcaagga gaagatgagt cgagaacaaa 60  
ctcaccacca tatgaagcca tggataagag cttgaaagta ggagaagatg agtggaggga 120  
gagggagaga agagggcacg aaatttatgc ctcaaattag gtcaaaacat taaagtctaa 180  
tttcttaaatt gatcaaactt gaaaaaatgc acacacaagg cctctattta tagcctaagt 240  
gtcacacaaa attggaggga aatttgaatt tctattcaaa tttcacttga attagaattt 300  
gaatttgtgg atccaaattt ggagccaaaa ttntactaac tatgagtaat gaatttcagc 360  
tat 363

<210> 28994  
<211> 207  
<212> DNA

<213> Glycine max

<400> 28994

gacccatata agactacctg tctgcaagca agctatatata ttgtttatta gaccacatca 60  
cgagcacata ccttgctctc ttaagatgag ctaactgcta gctcgaggtc cacaacaatc 120  
ttggatgagg gtttatgcga aacagacacc aaggatgatag gcgctatcct catgtaccag 180  
gaacaattct aagtactcgc gggccac 207

<210> 28995

<211> 226

<212> DNA

<213> Glycine max

<400> 28995

ctatctgacg acgatgctta ttacacacta ctatgaatct ttgattgcag aggagctaaa 60  
gataccataa ggacatgagc aggcgcgtga agcacttgat gatacgaatg gcacatgatg 120  
agagatagac cttacaatga gcgcgcaaaa tcaatgcata aacttcgacc tagcgtatgg 180  
ggaggaatca ttgacataga ccataaacag ctctgtgtcc ttaata 226

<210> 28996

<211> 384

<212> DNA

<213> Glycine max

<400> 28996

aacattgcga gaactccgta tatggcccca ccatagcctt tctgacctc atctgtgaag 60  
aagctcattg caggacctcc ccgacataca ctcacctaac cttacgctta ccgaaacggg 120  
gagcatagca atatatttgt gactaagctt gagagggggg acatatgtta cagcgtagga 180  
tctgatgttt atccatgcat aatgcaagga tctgctcatg cctgatgctg atatataccg 240  
cctatcactc gcttgcatgt tcagcttcat actggacact agaaatccga tgacgagtcc 300  
cccgaactgta ctactacctg tgacctgcct atcgacttag agcgagaaat gtatctaacg 360  
gcttgatatg agagactgag agat 384

<210> 28997

<211> 317

<212> DNA

<213> Glycine max

<400> 28997

tgaattcaaa aaaaaaaciaa aaattacaat tacaattttt taaaaatatt gtaatatatt 60  
atttttagctt gtgctcacgt actcccacgt agcccatatc ctcaattgtc tcagcaccgg 120  
gtacccatca atcctaccaa gttccgctt tcaatgagct cttttttaag gttgagagaa 180  
gaattgattt ggtctatgga ggtggtagcg tggggttgat ggggtctagtt tctcaggcgg 240  
ttcatgatgg tgggcgccat gttctggggg ttgacctctc tctctctctc tgtatctgtc 300  
tctctatcct aatctca 317

<210> 28998

<211> 154

<212> DNA

<213> Glycine max

<400> 28998

ccacactttg acgtagggat ccagtgtgtc cgatcatgag tatccgatgt ctgaacttgc 60  
ataccattcg actacagaat ccgactgttg actatcgata agaagaatcc atactgacgc 120  
agcttcttgc aattttcgat agaagcttca tttc 154

<210> 28999

<211> 321

<212> DNA

<213> Glycine max

<400> 28999

catccaacta tagagtatga tgcagttacc gaaaaaaggt cttcatcatg tagtaatagg 60  
aacatattat gcagatgatt tgttataaga agtgacttat gtgtgcaaag gtatggctaa 120  
actcacttat aacatacata tataaagaat tgaatagtca ctaaggatgt atttaacaaa 180  
tcacaagttt caacaatccc gtttaagata acacactaag gaaaaaaaaa gggattagtc 240  
aacacatgta ttatgggtata gaagacatta aggatgcaac acacattaca agcatcattc 300  
aatctcattt aatcatataa a 321

<210> 29000

<211> 220

<212> DNA

<213> Glycine max

<400> 29000

agcggtttatc tttttcatac gacaataacg ttgtagtcgg atgaccatat cgagtagctt 60  
catatatccg actctcgtat cgatatacat acgctctgaa ctagtatata cgactctaac 120  
gttatagtcg gatgaacgag ctgataactt aagatatcaa gacccaccga cttgatatat 180  
tacgctacga gatcatacat acgacaataa ctgttttgtc 220

<210> 29001

<211> 235

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29001

ctaacaggcc aacttactac agacgctccc aagagactca ccataacgat gcacanacta 60  
caatggccat tacttttcaa tcgaatgatc gattcaaaga cctaactcat ctaaactctc 120  
gaaacttaac aatggatgct ctctagaaat gcgagtggtc gtactttatc acaccgatga 180  
ccgatcccat gacatatcat atgtagacgc tcaaagatga catcggatac tcttg 235

<210> 29002

<211> 244

<212> DNA

<213> Glycine max

<400> 29002

gagagcacia atccgagact tatccaagta gtcttttcaa tacgattagc ttattcacta 60  
gcctttcatt ttaacttgta tttgacctta ttacagcaac gcacactttc ttgattgct 120  
atgtggtcta cctcttcttt tgtatttttt ttatttggtc ttaacacaac ttattcgttg 180  
tgtgtgctga tgtgcttggc cttccactat acatcgcgga taactcccc aaatttatgg 240  
aaaa 244

<210> 29003

<211> 233

<212> DNA

<213> Glycine max

<400> 29003

tctatcgaga tgaattacac aacttgatt gacaagtccc tctggcgatg cgccttccat 60  
cattcctcac cagtctagag ccactcttaa tcccacatgt gtctaggcta taagctgttg 120  
ctaataccac aacgagaata agacaattat gccaaatatg cacatcatta tgataagatc 180  
gtatgtacat tcactacatg gatcgacatt gacttgagca cgctgggtac atg 233

<210> 29004  
<211> 561  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29004

ctcacctcca cegactcgtc tattntacta ttgcaattct tatactatgt catattcacg 60  
tatcatacat tctattgggt ctcanagtac atactacacc tatcagacac ttcactctcc 120  
tcacgtcgtt tctctctatc taggtcactt actctatcaa acctaatttc acttttccac 180  
ccagacgann nncccaagta acactatgta gcttgcaccc tgctctatga caatctgaat 240  
agacaattag agttaaggat gtacctttaa gataccataa accaacattg gttgtggcct 300  
tatggcactt aatgtatctt ctttcatctg aaaacatgag aattcacacc ataagccgaa 360  
aatcttcaca ctagccaaca ataagcataa tatctggtct acttgcagtt aagtaaagaa 420  
gtgaaccact cctacctcaa tatcttgact tatcaaattg aattaccttt ctcatctcat 480  
tcacaaatcg tggatgatgc tcattgagat gatgcttttt tgcactttcc ctgctgcata 540  
cttactgagc actattcagt n 561

<210> 29005  
<211> 227  
<212> DNA  
<213> Glycine max  
<400> 29005

tttttctata tgatcgtgct acgcgtgtaa tcgacactac gtacatgctc ttgactactg 60  
ctgagatgag gatagggtac acgccttccg ctatggagta agccaccttg caatgagctg 120  
ctgctgcatt aatcgtcttc tatcataggg tagcagatga tgctcatgtg ctcgattata 180  
tgtatagact gtctgagcac catgttagag gtattcccga cggctag 227



<210> 29006  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 29006

tatgatcaaa agagtattcc ttatgaaata tatcttggtt cttatcagca aaagtcctaa 60  
 tcatagcttg tgtccaatta cttgtttcgt tttgtttctt accatgatga tgattagtga 120  
 atgacacgtg tctaattcgt ttgggttttca atgtgttttt tttaatcgct aagagagtaa 180  
 agggatttgg gaatcccttg tatctcatat tatataagat tttgtttgcc cgaaaaacaa 240  
 aacaaaaagg atcaaaacta tatgttttga catacacaat gctcatattg aagctgtcat 300  
 atgacacaca taatttagtg tttgattata aaattaactg acataaatta attttattac 360  
 acg 363

<210> 29007  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 29007

cgcggttct tagctcgaat gcgccccata gagagctggg cgtcaatata gtggtcgctg 60  
 atttctgtct gtgatactga tacaatccca aagccactca acataatagc cttgataata 120  
 aaccacattt cctgagctgc ctatatagca aacaagcccg cacaatcgc gctatgctca 180  
 aagtacgcta tctaaatagg aaacgtctca tgatgacgta attaataaat acgcagatgc 240  
 gagagctttc tccctgtaat ggacactgtc agatctaata agtcogatgc agcatattat 300  
 gtccgctctc gacacccttc aacacgctct t 331

<210> 29008  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29008

aaaccaacaa ttaatatattg ccgatataaa aaaagagcat cgctaagaat aagagatcac 60  
 aaacaacat actatctatg caattaaggc agaacacat attacaagca tacacagaat 120

tatatgggtc atattgaatg gatctcgagt aggctgcagg tcacaccacc agaacttgca 180  
actgtctaca gcaatctact ctctgtggc ttgtctntga taactagca 229

<210> 29009  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29009

cgcccttggt tgtgtcgatg acatgacgcg gncgagtcga ttctcggacc tcgcgcgggc 60  
ctatatatgt cgatctgcag cgcgtgctaa tcctttctgt atgacgctct atcgacatga 120  
agtcactcac tggtttgaca aggcaactctg gcgatgcaca tagcatcggt actcacacag 180  
tctagagcca ctcttaatcc cacatgtgtt tatgctataa gctgttcgct aatagccaca 240  
acgagaataa gacaattagg cctacatttg tacattatct cgaaaacatc gtttgtacat 300  
tcacgacatg gatcgacatt gacatgagca cgctgggaac acgacggaga cactgagaca 360  
tgatgcatat gggtcgaagt cagagcctgg agatgaagct cacagactac tctactagt 420  
ttacttggca aaagtacact atcgcttag caaacggcta ctgctgacga actctatctt 480  
gacgacctta taagctacat gg 502

<210> 29010  
<211> 522  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29010

cctccctcct ctgcacatt actacttaat attaacctta ctcatataca ctctacactn 60  
actaatcgtg catgtacatt caatgtgtat aatctcaact tcatatcacac tatcacatcg 120  
acatcattcc ttactatctc tcatcacatg ccaccgctgc actnnnnccct ggctctagca 180  
cgagattctc tatagtctcc gacacattta ttgctttca caaggaatag gttatagtct 240  
tcacaatatg ccaaacacac gtgctacatg tgggagtgat atcaaattcc tagcattatt 300  
agaaacacat caatttactc tccatattat gtacatgata taccacttgc tctacagaaa 360  
taggtgccac tttctcacat catatgttac aatgacagat accacataga tacgtgaanc 420

attagacatg gctacgctct gatacttctt tccagatact gcatatatgc ccagcagtct 480  
 atagccacct tatctcattg ataacttcgg atcataatct cg 522

<210> 29011  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <400> 29011

tgcactctgt gatggacgcg cgatgtacct caacatgtta catacatcta ccttgcaccc 60  
 attaacgcgc catcccctgt agtacacata tatatgtgca gacgtactac tacattacgg 120  
 actctacagt tttatgagca cttggacgcc atcaatccga ccaaactgat ccagcatcca 180  
 tgccatctgc atgatcacgc cacacctatt gacaccogat ctcaatggcg cttatgccta 240  
 atctctgttc agccctttta ccgctatccc atgaattgtc gatgcttgac ctgagagcat 300  
 cacc 304

<210> 29012  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29012

cgctctcgcg ctctcctcaa cttgactaac ttctcantaa gttgctgaaa cttaacttat 60  
 tcaactngtat antatnttga natatactac atgtttttnc actctaatat cgnctctttg 120  
 atattcttga taccacgcgc actgatatat actgtcacca ttatccatct ntcgttattg 180  
 ataccgaata tattccatat nnnnnnnnaa cccgcactga cacgttaact tgaacgaatc 240  
 tttcatacta gatacaagta attcaccacg ttatatggtc taaaataaga cttgcctgcc 300  
 acatctgaca ttggagcttt cgttcaatgg catgacataa agccatggca tccaactttg 360  
 cagactctct aattgtaata atatatgggt ttttaataag gtttgatcat accacctcaa 420  
 tacacttatt gatatcatat ttatcacctt tttatatatg cttgtgtaat cgatctatag 480  
 attagtccta ttttcataga acactattct atctttctcc gatttctctt tgtattgtac 540  
 ctattgaatc gacaatgtct 560

<210> 29013  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 29013

aaatgactga ggatgagtcg tctatgaatg tgctaattct ttgatgacat taagggtgcaa 60  
 ctatcacctg accatatgat acccttgggg cgagctcgta gaacgataag agcagctatg 120  
 tgcaaggata cagtagggca tactattatg ccgcattata cgtgcactga ctaaagaagg 180  
 cattcgctat gatcttactt gaatggactc acacacgatg cctgtatgtg taccctgtgt 240  
 gagccacca gttggacgct catggaagga 270

<210> 29014  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 29014

aacctctatg accatcaggt actacaacga actaaatata tcacatcatg ctccgagaga 60  
 ggtaattgat gtctatacag atcatctttg aacctgcact gcctgctctg tgcacttatt 120  
 ataccgacct ataataacta ggacttcccta ctgtgcgcac gaaatcaaca catacactcc 180  
 tttctatgtc ctggtgatga ttccgtgact aagacaatga gcaagctctt ccgtaccata 240  
 tatatgaccg tatcc 255

<210> 29015  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 29015

tgacctttct agctacaggt acaatcccac gtggacgaat catcccaacc ttacatggtt 60  
 gagtctttcca caatagcagc aacaacaaca gtcgctactg caatagccct ataaatagca 120  
 tatagctgag gtttctccg caccttccct tgaagaactt gtgaggaaaa tgactatgca 180  
 atacatgcag cttcaacaag agaccaaagc ctccattcat agcttaacta atcaaattggg 240  
 acaattgcct acacagttaa atcaacaaca ttcttacaat cctgactgac taccttctcc 300

atctgtccag aatc

314

<210> 29016  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 29016

gcggaaagtt tacactccca tgaggacgtc atgcctgaga ccatgatata ccacaggact 60  
tttatatcac tactttactc aaattctatt gcggatagat cattagacgc agtgaagctc 120  
ttgaatcaat tagaaaatca ccatgatgaa gatacaatgc tagactccat tctcaccttt 180  
cgggcattca tagggtactt attcaaggtt acaagacaac tagtagtgga ttaaagagc 240  
tgctacactt atttatatggg tctaagttct atactatctc acgaaggtga acagaatgat 300  
gtgcatgtcg aactcggtcg atcataacct ttatgaacat ctttctacac tattatgaag 360  
ctagatgtta acaaagattt tgagcaacga agttcctaac taacgtcact 410

<210> 29017  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 29017

ttgaactcgt ttgtaaactg gtcaaaataa tttatataag ctacgtacta aagcgacttt 60  
tcaccaccct tcttgctttg tttagatgga agagctttat tgatatccct ctgtttctca 120  
atgactcact cggttaattat acctatcata taagaaattg acaccacatg ttttaattaaa 180  
ttcacgtaat aagagagaat atattgaaaa gagagagcaa gagagtattt tgatatacca 240  
tcattttctca tgcaggaaca aaatttttaa ggtgcaggaa gttatactcc cgtgcatgac 300  
actcttctcc tccagagtca agactaataa caatcttgga tt 342

<210> 29018  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 29018

gatccacata ccatctcctt tagctatatc tcaccgttct tgagtacgag caagctatga 60

gcttatgatac acacctccta ttatgacttc actcaccgcg atgctatcta tgctgttaat 120  
gccgaacacc atatctcatg cctacgcacg actcatatgg ctctatatatc cagtgtttaa 180  
cctccataact tctagaatgg cctaatact agggctggac gaaagaaatc cctagtctca 240  
tctttaccgt gatagacggc ctactactga gcccatgggg tattaatcta cacttggtgct 300  
cttgagtaca ctacggcctt gacgtcgctc tctataaccag cctactt 347

<210> 29019  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 29019

agtagttctc gtcacgtata gtataatctt aatgtgatga tatgaagaat aataataatc 60  
tatcaatgaa ttacatatta caaattaccc ctctcgattg agtattacca ttccgtgatg 120  
aacgttgtct ttgacgcctt gccaaatagt tctcctacgc ttccttcgtt caccatatat 180  
gtccatgagt agttctgatt tctgcaacaa ctggcttata attgctaaac agcaggacaa 240  
tccaatgttg caactgagct aaataagttc gtgtagtacg ctgactgtaa aatgatacca 300  
atattatagt tatctgcatt tgcttcagcg agcaaacgga tatg 344

<210> 29020  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 29020

tcgctttcta gcttatectt gaagaattat catctgctta tggcgctgtc cattgcgcga 60  
acgagcatca cagtgtggca gcactcaaag gcccgagtaa cagcttggtc aggccgaatc 120  
gggggcagtg ggatggacgg ccctatgcta catggaagca ttctagtaca taaggacac 180  
agctctgacc gtcgggatct gctagctata tgatgcacaa cccgctctcg tctaccatg 240  
tccagcgaca tgcctacacg ggctttgcgc tggacatatg caa 283

<210> 29021  
<211> 246  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29021

aaccacagag tggttcctag tagatatagc ttaggcgagt agcgagacct tgtagctggc 60  
atgtgacgtt ataacaacca cacacactct cgatgaatgc tgacccatcc ccgtcatagt 120  
cggtaagtga gatactgtga tgtaacacaa cttatgagtt gcgggcgctg aagtgatttg 180  
ccgatccact actcatcagc gatgacgctc gcagaggctg ggcanatgtg aatgaagcgt 240  
gatgat 246

<210> 29022  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 29022

gctgaaattg agaatgaggt aaatttgag caaactctca cctcacacaa gtctataaca 60  
tcaatttata cttgctcaaa ctggatttac acctaaaatt ccaccgaatc aaaatgtgac 120  
tcctcaacac ccaattttac cctagaaatg gctctttggt cactttggtc atttgttttt 180  
ctctcttgta cagcccaagc tttctcataa gtcctaaatg acatttcaag ctatgattaa 240  
ctcactttta ccttcaaatg ccactacatc cagattatgg ctttcaactt tcacaacctc 300  
actatatttc actgataaca ccatattctc actttctaac cctatggtaa ctctaccct 359

<210> 29023  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29023

accccttggt actagcctat ctagattgct gcctgcttcc tctgagactg gactgacgat 60  
caggctttct ggggttcctt gaagatccca cacaccctcc tatgtcgcgc acttgctgat 120  
cataccgatc cctctaccac ctgacaagag gaatgccttc gtttaatccc gataccttgc 180  
accgcgcga tcctttatca cgccgagtgg tgctctcgca gccacaccat gatgtgtacc 240  
gaccgtacat atttattcct gcttatcaag angaccatcc tcaactctcc aataccacac 300  
atgacctcgg ctccacgaca gatgccgtac ttttgactc atccattgcg ggtctcttca 360

ttctacctat acaga

375

<210> 29024  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 29024

atgacgctct ccagcaacag gtacaatgcc ggatggagga atcatcccaa ccttagatgg 60  
tcgaatcctt cacaacagca acagcaacaa cgaccttatt tacaaaatgt tgctggctta 120  
agcagaccat actttcctcc accaatccaa cagcaacaac aacaacagca atagcccat 180  
aaacaacaga cagttgaggc cactatgcaa ccttcattg aagaacttgt gaggcgaatg 240  
actatgccaa acatgtagct tcaactagag accagagcct ccatatatag cttaactaat 300  
tagatgggac 310

<210> 29025  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 29025

tgcggctgct tcttttagatg tgaccttcct ttgctgctca tgtagccagc ttgatttacc 60  
tgtgcgttgc gcatttatct tcaggagtac tgagcattgc accttcgaa gactaggatt 120  
catcatagtg ctgataagag catattatgc agatgatgag ccattgatga gactgatgct 180  
agccattgga atggctataa aactacatg agataaggga ttggggaata ccgtgaatgt 240  
tatatgcata tggaacttag agagaccgtt agctaaacac ttgggagcat cactttgtgt 300  
tatgacgtgc gcaatgctca tagaggcgct gtgttatgac tcacatgata gaacgaatga 360  
gtatca 366

<210> 29026  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 29026

catttacttt ccgtaccccc ttattacgtg cttcaatcat ttatttaaga catttctctc 60



ctaatacaac ttatcagcca cattcctcta tcatattgat gtctttttatt aattaaaatc 120  
catttgattc acatcccacc catcggaat tccccctcct cattggaaat caaaacacac 180  
gtataataat aatatcatca taaaaaacat accttttagt aaaatgaaac gaaaaaaatc 240  
aatcgacct tctctctttg ggattttctca ttcttaatca aattgactaa taactaaagt 300  
gaaacta 307

<210> 29027  
<211> 145  
<212> DNA  
<213> Glycine max

<400> 29027

acatatgcgt aacattctca caagctttac atcgtgatc tcacgatcct accgagatat 60  
ctatttgccg atgcaatata tgccttctaa tactggccac cctgttcggg aaggggaccc 120  
tacggactct ggcgagacac ataga 145

<210> 29028  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 29028

cttcataacg gtattgacat tttcaaatgg gttttaagtt tttctaaaag ctatcactct 60  
tttgaatggc cttcttgacc agacatggag agtctataat agcaaggcct tgtcttgcac 120  
ttcaagcatc ttgaattctt ttccaatcaa tcctttacaa gacatgactc tctttgaaca 180  
tattcttctt ctttgtacca acagctttat gaagatatct ggatatacaa accttgaaaa 240  
cgtgtgctag tcatgttttc attcaattct ccctatgcac aaaagaattc gacaaggact 300  
aaccgcctca attcttttgt gt 322

<210> 29029  
<211> 296  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29029

tattgttccc tggtttntg tggtttcatg aaactcgtca catgtgagtt catgattgat 60

cogtatgttt aagatacacg gtgctacttg cctgattata ataagataat tgcattgatat 120  
aatcgtcgtt gagacattaa acatatgaaa aacctggggc cgtagcggat attcggatga 180  
acttactgga atcgtaggga tcgacttcat ctaactcata cggaacagag cctgccatct 240  
gactcattcg ggtcaagatg tataaacgac attttctctc attgacctcg tatgtt 296

<210> 29030  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 29030

agtactaagt atttattacc tatacttaac agaaaatact tataaacacta caaaataacc 60  
ataaattgga agagtttgat acgatttaca caagttttat acataaaagt tagtcgtatt 120  
caccgactaa caggcacccc atagaactgg cagagactcg tgatcaaggc cgaaaacccc 180  
agtgtcttat tggacttttt cgggtccact ggatgtcgaa gaggtgcat cccttgaaat 240  
cggtaaatgg catccgagat tagttggggc acatgaatac taacttgagt caagatggcg 300  
tagaccagct ggcacttcgg caagggaata ttaaaattat gatcgtctggg gaggatgtta 360  
ctg 363

<210> 29031  
<211> 185  
<212> DNA  
<213> Glycine max

<400> 29031

ggtataggtg gtagtattga cagttggccg aacacagata ctgcagggtt catgaaattc 60  
ataggatata catgatcatt aaaacattga gatcacaccg taacaagaaa cacttaaaat 120  
tcgtctgtcc ataatacagt gccagttttt catatcctat gttccaatga atgcatacca 180  
catac 185

<210> 29032  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 29032

tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg gatggtcgtt 60  
tctccaggag cgacgcgtcc agctcagggg cgacgagtat actgatttcc aggaggaaat 120  
aggggcgccgg cggtgggcat cactgggttac tcccatggcc aagttcgatc cagaaatagt 180  
ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca tgagatcctg 240  
ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc tgggatatcc 300  
gttggtgttg gaagagggcc aggaatgtga gtatggccag aggaggaacc ggtctgatgg 360

<210> 29033

<211> 296

<212> DNA

<213> Glycine max

<400> 29033

gatgactagg agtgcacgtg aatttgcttc tttgactgaa ggaatgagca cgcttggacg 60  
agatacctaa taatttatgt gtaatacgga tctcattcgc cgtgagatga gcgatacatg 120  
caggaacaca gaatcaagct tctagctcct tggaagtgcg agattaatat ctgcctgtta 180  
tggaatggcg actctgcttt taacagatct agcctagtga actattataa ctgtatgatt 240  
aatagacacc ttgtcgatac tgatagggta tcgatactct acaccttatt atgata 296

<210> 29034

<211> 329

<212> DNA

<213> Glycine max

<400> 29034

agaaaccttt atgatgggca tttt gatgta caattacaat agtcattttg atgtttgctg 60  
agaatgaatc catacttgat gaaatctatt aatgaagatc ggatcgatat ccatttctaa 120  
agtagcatat ctttattaga cttaacactt cttcacaaat ccaagcattt tgaagttgat 180  
tacttcagaa agactaagag aaagtttatt tggttggtgtg ttagtgtttt gccagcggt 240  
agactgagtg atttacttca atattggatt ttgatgcttc tcatcagtgc tttacatgga 300  
caatttcate tttcaacaga attgcatct 329

<210> 29035

<211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29035

ttgctcgttc attcgtgcc a tcagcttgac ctgggatacct catagtctac ctgcagcttg 60  
 caagccttat actgtatttc aatgcgcggc ctagttctat agcatatcat tattcatagt 120  
 cctctatgta attactgctg acccgtgcac gaggtttgat catcactcga tccacactaa 180  
 tcctcagacg tggagggagt tatgacccta ctctctatta taaaccttga gcaataactt 240  
 tacataccat atacattatg aatcctttgc ttaaacaatag ctgcgaccct tcaccactca 300  
 tgacccatcg tactcttata acccatctgt cagatcacgc aagaattccg cacttccatc 360  
 ttcatattcat atcgcatccc tgaacaacca ttgcaacag ttatgctaca ttctatccta 420  
 taagcgatgt agctccatgc cgtggataaa ccaccctgcg gcgcn 465

<210> 29036  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 29036

ttcatgaaaa tacaaaaaaa agtccttact acaaagacta cccaaaatgc cctcaaatac 60  
 aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag aaggaaaaac 120  
 ctattctaata atttacatag ataagcgggc tcataacttag cccatggggc caaaatctac 180  
 cctaatagtc atgagaaccc tacggccttc ccttggatct ctggcccaat atactcggag 240  
 tcttctatcc aattccctaa cgaggttaga ttacatcact atgcatgcat caactttgaa 300  
 taacaccac acggaaatgc tcctgcgtta ctcaaatttc tcaatttcag acacgttgat 360

<210> 29037  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<400> 29037

gcaactcgct cacaccgaac atgatgctgg aaggccacc aatcaacatt tgtcaactta 60  
 tcactctcaa attccccaga catagctatc tggacatttt gagcattaac aatgacttct 120

tgtcacaccc agactggcta ctattacctt catgacattt acacctttga tgaacatact 180  
cta 183

<210> 29038  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 29038

aaagtgccta atgaatcctc ccgtgcttat gccaccagta cctggaaggc ctctcatttt 60  
gtacatgaca atcttggacg agtcgatggg gtgtatgctg gggcaacatg acgaatccgg 120  
gaagaaagag cgcgctgttt actacctaag taagaagttc acgacctgtg agatgaatta 180  
ttccttgctc gaaaaaacgt gttgtgcttt agtatgggca tcccatcgcc taaggcagta 240  
catgctgagc catactacct agttgatatc caaaatggac ccgggttaagt acatctttga 300  
aaagccagct ctacggggac gaatcgcccg gtggcaagtc ctgctatc 348

<210> 29039  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 29039

gtactataat gacttatcgg cgcacattaa ttgtatcata tacgatagtc tatatattaa 60  
tatatacata tatgatatat catgccatta gatatgatga tttaaactct atctaattac 120  
atatcatcta ccacatgttt agttagattg acgtattaca tagagaatgt gttgataaga 180  
tatagcatga tagtatctcg atataccatc attactcatg catgatcgaa attgatacgt 240  
gcatgaatta ttctcctgtc ttgactatct tc 272

<210> 29040  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29040

tcaaaggtgc tattttggga agacgggtgt aaggatgatg gggtttcggt gatggaaaag 60

taccaagct tgtaccacat ttctcaatag caacatcaat atatccacga gcaaggggcg 120  
 acatcaggta caggttgga atgacagttc cagtggagat tattttttgg aggggtgaaat 180  
 agacatgact gcaaatttat gaaggatata gaaggtctga tcgtccaact gcagcgacta 240  
 gacacctaga attgggagcg agattcaagt gggggatata caattgggaa tgcttatatg 300  
 atgcttgata gggattcgac aaatganaat cacgatggag agtttactac attatggaag 360  
 ttaa 364

<210> 29041  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 29041  
 ctgtaagtag gcggtgacga gaagggatga aatgatcatc cctcctgaat gtgatgaaat 60  
 cactagtaat tatagactat aattgaatcc ctgattacaa tccacaccga tgcgctaccg 120  
 attcacatcc gtgggtgaac gcgcgaagat tcgccaccat tcatagtctg cctaccctcg 180  
 ctctttgcac ctt 193

<210> 29042  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 29042  
 gattgcctat ataggttgat ttagcataaa attgcctata tatatatata ttattgagaa 60  
 ttaatagcct ctgatatgta aacatttctt ttcctgccg ttgttcaggg cgcgattgag 120  
 acagcaacat tagatactcg cattaaagtg tctaaccag aggatccaga gccatcaatg 180  
 aaactttatg tggaaaacca ggcagaccct gcaatgcgat tagtctctga gatgatgata 240  
 ctttgcggtg aagctgttgc cacatttgga tctcggaatg acattccttt accatacagg 300  
 ggacagcccc aatcagatat gaatgtttct gaa 333

<210> 29043  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29043

ttgctgaaac ccgttactca ctcatatcatg atttcagatt ctcgtgagga tacgtgagga 60  
 gactcgttga ttcgcncgaa cttcattaac gcctgcagga tacatctttg actatcttgt 120  
 caacgcatag atggattgcc gcagtttgcc gaaagactct acaacgcatt ggctgactcc 180  
 agagcacata ctgtctggag cttgagctcc ataacgcatt ggtcgactcg actacgcact 240  
 tgcagactca tatctgctga cttgactaca ca 272

<210> 29044  
 <211> 125  
 <212> DNA  
 <213> Glycine max

<400> 29044

tccccagcct tcccttgatg aacttgcatg gaaaatgact attcggaaca tgcactgtca 60  
 acaagagacc tcagccttca ttcttagctt aattaatcct atgggacact tgtctgcaca 120  
 gtcaa 125

<210> 29045  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 29045

attcattaac gcattcattg agcattcgtg gcccatctcg acgcgcgcta actatctacc 60  
 tatatattat atcgccgaac atctttctta gacacatacc cactaatcat tacacatgta 120  
 gaaaccgtta cttcacgtga taatgaatcc cgcccgatcg gtcacgcca aaccacattg 180  
 tagatcatta tacaggcttc acaatgatgt gcccatgaa accctacctt ttagtgtatt 240  
 gacgtgtgac aacttaatca gacggggcat tatgtgatac ctcttacgat gaatatctga 300  
 ctatatgcat tactga 316

<210> 29046  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 29046

cctctatagc acacactgcg ggcattgcatt ctctatgttt ctctgattaa ttcggcctgt 60  
 gtagctctgc attgcagtgc cgagtttgcc caatgggttg gacgtgctcc tcagcgttag 120  
 tgatgatctt gaatgggtctt cttgaccatg acctggagac tccattacaa caacgatcat 180  
 ctttgcatth catgcctgct gacatthttga tgatggagct ctttacgcat gcttacattc 240  
 tttgagcgac cgacctattc tgtgcaccat catactgtat gaagtgcac tggaatgaca 300  
 aatccttacc aaccacctt agtcatctta tctacatth ctgcctttgc ccatgggact 360  
 actccaa 367

<210> 29047  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<400> 29047

ccatcacacc ttaaccgagt agctgtgact atcttcatca cattgactat cccatatgga 60  
 cgactcatcc acatcctaga ctgactactc ttctaaacac ctgtccatac aacaatctat 120  
 acctctatat gtttgtgaca tcaccagacc atactttctc ttgtctaaac cagctactca 180  
 aacttcaact tgagtthttcc caaat 205

<210> 29048  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 29048

ctcttgcgac tccgatggaa gtctgtthttc atgtcccatc atcgataatc cgacatgatg 60  
 tgccctccgt cagccagaga aagtactctt gtctgatgct cagctgacaa cgtgaccgta 120  
 cttgatgaaa tctatgattg agtaactggt cgtagacca ttcttctat gcagctcgcc 180  
 attagactta tgacttcttc acttctgcac atctagtac tgagatcact ttagatgcag 240  
 taatagaagg atcatcatgc cttgtgcact cgtatgagcc agcgtcatac gcgccgattg 300  
 acttcaatca tgtatgctga tact 324

<210> 29049  
 <211> 467



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29049

nttgattcga tgacctcgac aggaccatat cagctctcga cctcgcgatc ctatgagccg 60  
accgacagct gcacgctttt ctattttctc tccgcagtac cacactgctg gctatacgat 120  
cgcatatctc cagcatcgct tacacgccgt ccaaggatga gtccatactt caatagcgag 180  
gcgtgctcat taaggaccac tagtatactg atacctacct atgagaatcg gcgaccgcag 240  
agggcatctc ttggaactac acatggccaa cttcgatcca tgaacagtcc ttgagctaca 300  
tgccttagca ttgccctccc tatatggcat gccctaccta agactctaga gactgggtcg 360  
atgatacctc tgaatatcga tactatcgtg ccctactgaa tcttcgnaaa catgtgatac 420  
gtgacgaatg gaacatgccc tagatgttcg gccacagttc atccgac 467

<210> 29050  
<211> 97  
<212> DNA  
<213> Glycine max

<400> 29050

attgaagtat gagcacttct gcttgaaaag tgaccatgct agtcccctat tactcactat 60  
catctgaact tgtgtccaga gctagttcta ctttacc 97

<210> 29051  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 29051

acgtgataca tgcattcggt agatataggc tactgataat aggaatgcct atctattgtc 60  
gacttaacat aaatgcgcct atgaagatat atattattga tacttaactg cccatgcttg 120  
cacctctgct gactctcatg ccgttgatca tgacgcgcat gagacgctaa gcctcaagac 180  
tcattatcta tattctaate cacacgatgc atacccatct gcgactctat atgtggaagc 240  
ctacaccac cctgctttgc gatgagccgc taagatgatg atacttcgcc gtgaaggtgt 300  
agacacatt 309

<210> 29052  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29052

nctggangtt ggtagactca tttctgagac acatatacga gtctctcgaa ccttggtgat 60  
 ctctctgaga gctctacact gcgaaggcat gcaaaactct agtagtgta gatcctatta 120  
 ccagtcacta gaatataccta ctagcaactc tgacagcagt atgacgagtt gttaagacaa 180  
 tggaccttca tccatatacc ggttcatgat caacgtctta ccttgactgt gactcgatgg 240  
 caaagctcat ttacatatga agctatgtag aatatctttg atcatgataa ctattcatct 300  
 tagactacaa gtggtgatga aagtgaccac tagaacctcg tgatgtgctc ttagtgcaag 360  
 tcctatacat tattatgtat ataagctatc tttctatata ctatcgacca attggacact 420  
 gatcaaactc attccttctt gcacgagatg tagtgatcat gtcgctatga tatgaaacct 480  
 agccttgtaa tataatcacc tgggtgtttt ctaactatc 519

<210> 29053  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 29053

ctcctcgaca aaatttgaga tcatgcttaa ataagtgact actactcgag cttagcccg 60  
 ttgccctcac tttcaacggt ttaacgctct tctacgagaa tgggcttaac acatggtctt 120  
 ctcgattgac aaacgtactg taataggtag acatatcagg atgctcctac tttgaccatg 180  
 catgcacaat ttatccttat gctcaagaca tccttacgct cttctgttga atgtctggct 240  
 caatgaactg ggagtcttgt atccaagacc gtctcgatga gcgagtacat ctctacgctt 300  
 gcat 304

<210> 29054  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 29054

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 tgatcagtaa atgccttatg tatcctatcg agcttatgcc tccacggcct gattgggtcta 120  
 tcattatgta catgacgatc ttggacgagt caatgggtgtg aatgcagtcg tctcatgacg 180  
 attactggca gacagatggc gctgcacact atctatgtta aacgtacgat atctgtgaca 240  
 ccaatgactc cttgctcgca tcaacagggt cagcttgaat atgggctgcc catcccttat 300  
 agcaattcac tcatgaccat actacctatg 330

<210> 29055  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 29055

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 tttctctgag tgactctatc tgactctatt tgctggcatt gcatgatcca caggacctgc 120  
 ttgctccctt ggacattgtg ggagacgcct tagattgtga tgcgacattg atgattgccca 180  
 tttactactg acccatctta tgaacgttct actgcccttg attcgtactc caccatgcta 240  
 cggagatcga attcagactc ctgcattggc ggaactgctc tgattgactt cgcaaacagc 300  
 gccaggctgg tgagagatca tgtgctcgga agactcccat gtgagggat 349

<210> 29056  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29056

gcccttgatt tcgtgccttg ctgcacgagc aaatagagct ctgacctggc gatgcgctat 60  
 agctgacctg caagcatgtt ggcttgtag ctntagcgat gaccttactc tccaagcatt 120  
 gatggcgtag tagcttctcc catcatatct atactcaatg agaatgggtcc agcagcgta 180  
 acgcgcacaa taatactaca gactgaactc ttgtagaaaa cactttaacc gaatcactgt 240  
 ttatcatata cggagctcag cacctccagc ggctagagac tgtgacgcac cgccactgcc 300  
 gttacagtac ttacatgtca caccctatcc ttgcttaatt caccttcttg catactcgag 360

gcagctatga ggcatcatta ggtgctcata gtgcacagag tgagcattgc ttatacctat 420  
 atctagctca cctctctgat gactcttgac tatatacaca gtaggggggcc acttgctact 480  
 gctcgatgaa tacatttctg cttt 504

<210> 29057  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 29057

ctgctgcgat gctatctgtg acctatgtag ggactactcc atactctgtg agtcattggc 60  
 aacctctttg accttggtt aatgccgaac agcatcttat atgacctgct ctttgacgtg 120  
 actactctgt tacacaagtg gcctcact tcttaatgaa aggagttgaa gttggataca 180  
 ctctcatatg cagcactaac acatatctct ctgtctgatt tacattgcgt ctttgatact 240  
 agaactactg gtaaaacaac tcgaaatcca tcgtttatgt gtggccatgc gcaataataa 300  
 a 301

<210> 29058  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 29058

tttccctcgt tggggctgtt gtacaaacat tttccagat tagggctctt tccaaagtat 60  
 ttcccacggg gtgctgtttt tgcacgtacc cagcatgcaa gtcgcaattg ggagtgacaa 120  
 cttcatgcat ggctgacatg tggcgaacgc tggagggacg cgccagtact gttggcgact 180  
 tcatgcatgg ctgacacgtg gcgaacggtg gagggacgcg ccaacctcat tggcgatttc 240  
 agcacggtga cgccccagtg ctgttgagc tttgtgctg ctgtgtaaag tcccgtcaag 300  
 cagtgtatca gtatcctagg tgcagctgca gaagctagct ct 342

<210> 29059  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29059

tgcggctgcg gctttatgat tgaagcactc cctcgtacca tggatcggtat ggcgagacta 60  
 cagatgccac tctacagcat ccgaactcctt atcatcagat gatgagcttt cgtcaggacc 120  
 acgaatccat ccactcttat ctccgatagg ctggacttga tgctcctacc ctgccccct 180  
 cgcaacctta gaagctgcac gctctctacc aaagaattat gcatagtacg actactccag 240  
 gatggccgca ttagtcagcc tttgcttaac aacattggaa gcatcttcat gttcatctcc 300  
 ctatacgtca cctagccctc tatgagagca ctctattact aggcgctgtc attgtgctac 360  
 atgatggact aattatgtac acgcactaga tctctcatga tatctgtca 410

<210> 29060  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29060

aaagagagca cgaattctag actaagccag atggacacat cgagatatgg acagaaagcc 60  
 gtgggactag tgccttctct taagtaagat gggggcttag cgttctctgta caactgtatc 120  
 catatagact gttatcccc ataccacagc atcggagagg gctctaattgc ttaacacaat 180  
 gagcctgaca cttagtgtact gttctccac acgttccaga cgcatagtgc ctcgttccct 240  
 aagctcagat caagtgtgag ccaggtacta gcgcaatata gcctgagtgg gccggctctc 300  
 atgcctacgt ctaattccac tgtatacaac gtgagatcgc aacgcaacat tgtgccatgt 360  
 gagctcttcg gtcacacagc gtgattcn 388

<210> 29061  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 29061

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 catatctgtc acgtgggtga cgacaccttg aggactgtct gcgagggctt ctgactggc 180  
 accatccatg attcttccct acatatcact gacttcttca taaaagata gcctacgacg 240  
 ctgctatgca agctaactgc ggacctactg ccacatagga tcttagatct ctccccatag 300

tcgctcgtgc tgtctccgct gagctgtgta ttacgtgaga tatecttact aaagccgctg 360  
gcctgcaagc acggtacatg gtttctcaaa ttactcgctt aaggacgtac atactatgga 420  
tggacc 426

<210> 29062  
<211> 217  
<212> DNA  
<213> Glycine max

<400> 29062

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tcataacgcg ccggccggga tccatatcac attacatccc cattttaacc gatgctgat 120  
caataggaga cgcccgaaca gctgcaagcc gacgtggccg ctctgaaaga tcacatggac 180  
taactggtga gggccatgac tatgctgaac ctgctca 217

<210> 29063  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29063

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ggaacgccgc atgctatctt taaagttgac ctagtatcgt ctgagagacc atcgaacctc 120  
tagacattac antgtgtggg agacatgact agcatatgct ggagtatcag ataacccatg 180  
accacgtggg gggccgagta cgtgtctctc tcgacttggc cttgactacc atcagcgaag 240  
taattgacta ctgtgagtgt ctgatcgaac cgatgcatcc tgatggattc ctaattggtg 300  
tgaagaacaa tctcccttac tataaacatt atctacgcga atacttgggc gtactcatcc 360  
gcgactctgt gcacgtgggt gatggctaga cgctattact attggctcta tgagatgaca 420  
gcttgctgtg cgctccctcg tcatcatacg cactcgtaac tatctcgtn 469

<210> 29064  
<211> 179  
<212> DNA  
<213> Glycine max

<400> 29064

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agcagtgatg aacgcactta tcttgacact cttgcgtaa cagtatctag ggaggcgatg 120  
gtccggctct ggagtcattc cctcgataca acagccacac agtgattcca aactatgct 179

<210> 29065

<211> 237

<212> DNA

<213> Glycine max

<400> 29065

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cggatataga catgcacgga attatatatc taagctgata tcataggaca acgacaataa 120  
ctgttatctg cgaagcccaa ttgattcccg ccctatatca agacgctcgc agtttagaac 180  
cgaagctgga ctaaaactaa catacgattg atatgtaatt ggatgtccga ttggctg 237

<210> 29066

<211> 224

<212> DNA

<213> Glycine max

<400> 29066

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ctggagctta tctacactgt tcttggtata taactaaata catattactc gtgcttaact 120  
gatgttgtct caccacacgt ctcatagct tgaacctgtg cacacttctc tcatatagaa 180  
caccgtatct tcttcttcat caatatccaa cagtactcga acgt 224

<210> 29067

<211> 131

<212> DNA

<213> Glycine max

<400> 29067

gccaacacgg tcttggataa ctagctctat atacgcctct cgagttactt ctaatggatg 60  
cctgacgctc tctaccagc catgctgac tctacacatc atctttcatc gaagatcctg 120  
tgccccact c 131

<210> 29068  
 <211> 221  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29068

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 cacttctact ctgctcgcgt cttgtcacgc ctttatgtga ctcttttccc cgaacgagac 120  
 gaaacttccc ggatgtgggt accatactcg tctattggcc ctgccgtgac ggtacctgac 180  
 ggacttacct gcttatccat ntaatgatgc tgtagagtgc a 221

<210> 29069  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 29069

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 cgacgggaca tacgctggtc gtgcgggctt gccttatgac gatatcaaag tgcctgattc 180  
 cttgaacctg atgatcaccg atgcattaag agttgtctat agcctttcta tga 233

<210> 29070  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 29070

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 gtgtgactag ctatgaacat cggattgact tgaggggttc cgtatttoga cttccagcgt 180  
 gacgagatat gatgctggca gaatatcacg acctttcggg ggttatgacc ataggaattg 240  
 atctagagcg cgctgagtcg gacttcagcg tgacgattat gatgcgcgga gaatctgact 300  
 accctgcgat g 311



<210> 29071  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 29071

gctcatacat acgactataa tgttatggat ggatgaatga tcgatgacgg tcaaaaatcc 60  
 atacgctgcg acttgatatg attacagtac tcaactcatac atacgaccat atcggtattg 120  
 tcggatgaat gagcttatac cttcatacat caatacccat cgtctcgata gattacgaga 180  
 ctcaactcata catacgacta taactgttat agtcggatga atgagctgat agcttcataa 240  
 ttcaatatga accgactcga ttgattacgg tactcaactca tacatacg 288

<210> 29072  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29072

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 gtgcaaagt cactattcta tgtctctgac aacaaattta taccgaaatg tgtcgtgttg 120  
 atccttatcc actacatggg tgcattgactc cgtagggacg tgcgatacat caagggcgct 180  
 taccggagga cgcgacgcgt ggcctctgct gtatgcgtct ctgcgggctg cgcatacacc 240  
 gaaggactcg ccctagactc actcgctact gtatgcgacc tgcgcctacg cccacctcac 300  
 taatacaaca ccgaggcggg acgattccag catctttgtg cttgggtgga agaatgcgtt 360  
 gaataacagc actacagtta ccttccacan naattatgtc actatggat 409

<210> 29073  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 29073

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 gactgtacaa cagcgagata cagtcgatat atatggctct ctgaagactg atgggtcattt 120  
 gcttatctct ctagcacagg cgaagcacct tcatatgatg taattgactt ttcaagctca 180

tagagactca ctatagcgtc cgacctccac acaatct

217

<210> 29074

<211> 168

<212> DNA

<213> Glycine max

<400> 29074

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tatgcagaaa catttgatac taattgacgc attttatcca tcacttggag ggcgctcgtc 120

caaatatcaa gcgcccgata aagctagcaa agactcgtga tccatggc 168

<210> 29075

<211> 265

<212> DNA

<213> Glycine max

<400> 29075

ttcttgacag ataaccacca tcatgcgtga ttgctatgat aaagttcgtg gcgataaatg 60

aggtaccata tcgatgctct agactacata gacctacatg tacagacgga ctgctctgta 120

acctcatcag ggagaggtca ttcgtttatg acgattcacc cacctgctct attcacttct 180

agcctacctg attacgtggc gctaaatccg atcataccga tgaccatagt gcacataact 240

aataggagaa gcacctgggc taatg 265

<210> 29076

<211> 108

<212> DNA

<213> Glycine max

<400> 29076

actttcttgt tcctttgaaa accacacctg atgcttgaga tcaaactgtg tccatctgac 60

tggtccttat cctctctctg aagctaaagc tcgcttgctc tgccccac 108

<210> 29077

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29077

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 gtgattgggc cctttcctct ctctgaagct taagctcgct gttactgccc cacagagccc 120  
 ctcggaattt ggtccggcca tgttcttccc tatgggcctt tttggtctct tgttccaagg 180  
 cctttgtggg ggctatatatt atgtctctca gttcggcatt ctcttttcag atcttaagag 240  
 ctgctgattt gaactcttct ctgactgttt gggctgtctc caagtctgcc ctgatggcct 300  
 acattctttt cgccttcctt cgagcttaaa ctacaccccc ttaatg 346

<210> 29078  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<400> 29078

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 ccaccagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttt aagcatctcg 120  
 atacgtgatg ggactgaatc agacattcga gtaaaaagtt attgtcgttt gaat 174

<210> 29079  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 29079

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 caaagttgag ctgcccgggtg agtataatgt tagctccacc ttcaatgtct ctgatttatc 120  
 tctttttgat gcaaattggag aatccgattg atgacaaatc cttctcaaga gggagagaat 180  
 gatgaggaca tgaccaagag caatggcaag gatccacttg aatgacttgg aggacctatt 240  
 gatgatgaca tgaccaagag caagggcaag gatccactgg aaggacttgg aggacctatg 300  
 ac 302

<210> 29080  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29080

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tacttcgttt ttggtaagtc attagctcaa tttttgactc ctataattta gagaatgatg 120  
catcattttc tcaattaaac attttcaatg attatcttta tcttatttag atatacatgt 180  
ttatgctatt aaaaaacatc tgaatttttt agattatgca gagaaaatag gaagggagaa 240  
gaagagagaa agatgataca caatagatta acttaaaggc tgtaactggc cgtccatctt 300  
agaatcttac aatccgtcaa ttaacaaaag caaatagaac aatttttttt attaacgggt 360  
tgtntatatt tatactataa agaatatcaa ataaaagaat 400

<210> 29081

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29081

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acctaaacta gataactcac tcgagtcaat ttggaattaa cataagtaaa gtacactcct 180  
aacaacaaca ataataaata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatcttaa tttttaaata ttaaagtttg aaattgtgtt tatttcattt 300  
tacaaaactc gattgataat gtttattata ttaattatatt atagactata aaaatctctc 360  
attaaaatca gatatatattg attgacaaat aattagaaga aagagagata ttaatgacaa 420  
tgagt 425

<210> 29082

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29082

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tgaggaagga gatacctatc ttggacccct gctccacctc aaagatccgt ccccccata 180  
 actaccccaa ccgaacatag tccgccatat cccggcttca cccacacctg taaaagaatc 240  
 tgctcccttc gcagatgata acgggaagat ggaggcgctn gaagagaggt taagagcagt 300  
 cg 302

<210> 29083  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29083

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 agctactcag tttgccaatc tccctcaa at gctactacaa aacctacaac aagctcagca 120  
 aaacatgttg ggtgttgtca tccaaccacc tcccattatc caacaacaac caactccaag 180  
 tatattgctt gcacctgttg aaggaaaacc atcatcacc acatcaacac caccagttca 240  
 gccaccacca ccaccaccga ccaatcaaga gtgacaatga tgtcccatca t 291

<210> 29084  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 29084

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 tgttgagaaa gaaaatcggg gttgcttacc aaggagacat cctttacaca cttcattggt 120  
 ctcccttatg cttggaagat ctctcatcat gttcttctca tgtaacaact tcaaggcatg 180  
 tgtgttgaag tggccaaatc ttogatgcca tagccatgaa tcatcaactt gtaccttcat 240  
 gccaatgggt ggtgcatatt taaattttaga gggaagcttc tattgctctt attcatcttt 300  
 acttgggcta tctcagacct ttctatttgt tgcctaagat ttgcatacac ctccctttaa 360  
 gtgaagcgtg tcgcctctct caatcatt 388

<210> 29085  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29085

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aggagtattt catttcttac gaccggtact atgttgctag gcactagaac ttcactata 180  
tggn gat tttt tcatggtaa caaaaaattc ttgt 214

<210> 29086  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29086

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aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccctgtt gccaccttc 120  
aactgagctc acgtactccc acgtagccca tatctcatt tctctcaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc ccaacatcaa attaatacaa cattcaaaca gcacatgcta 240  
tcacagcaaa gcaaaacagc gcaaaggcag aaaactctgc ccaaaacacc aaccaaata 300  
cagcttttct cacttaaaga cccagtaac aattccttcg ttccggttca ttaaccgttg 360  
gatcgactcg aaaatttact ggaagtctct agtacataag cctacatttt gaccgttggg 420  
atctact 427

<210> 29087  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29087

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ctcacacggt ttctgtgtat ctataccagc agcacaata cagtttaacc atgataccca 120  
accatcatct gctgatgacc cttactcgt atattactaa atgtagagca tatatgcaag 180  
ctatacaaaa aagcctaccc ataccatcta ctataacatt cacgtaagac ctgtatcatc 240

atattaatcg atctcctttc cttaacaaag agatcgaatc aatcataacg ttatacaata 300  
 canacacgcc ctgggattca tctcccatc acaatacgag aattttcttc ctctcccttt 360  
 cgcattaatc actgcccaga ctctatgttt tgcc 394

<210> 29088  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29088

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 cnacaacaaa cacngngggg nncnntgtg gtttcaagac cancacacag caagagggag 120  
 cagccggcna gggacncca ccgccagcga cgagaaaccn gccgtaacca accaaccgc 180  
 gatagacca ggcggggncn ganatatcca ccaacggata ccctcacctc accatggctc 240  
 acacgaagaa aacaaatnac gcttttgacg caaaacacaa tgccttcccc agttttggta 300  
 tagaaagatt ataaccgtac ttcctcaaaa accaatggcc ctgaacaagc ccaccacgct 360  
 tcttttcgca aatcaaaaaa gccacgacaa tagaaggta gttccggccc ccccgacaaa 420  
 tacctgctaa ccccgaagag gcgaaaacaa acagaacaca ccagcgcg 468

<210> 29089  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 29089

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 cttgatattg ggtcaggaac caaggacatg tgtgcacaat aagattaaga aaatgacatt 180  
 gaaacggtgg atcgtgttcg tgtgctgtta acatttcata ataatgtgac ggtagcaata 240  
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 tgtttgactg cttatgaatc ctcataaaaa cagttttctg acc 343

<210> 29090  
 <211> 303

<212> DNA  
 <213> Glycine max  
 <400> 29090

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 gaagaaaaca tcaaactctga ctctgaggta ttgacagcgt gccaattttc atcaaaagaa 180  
 caaagcaaac aaatttcaat acccaaactt ggaatagacc tgactgcaaa caacaacagg 240  
 taattctttc aatctttcaa gatagagaac ctccatgtta cttaaaataa gactgcgaat 300  
 att 303

<210> 29091  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29091

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 atatatgacg ggactcaatc acacatccga gtaaaaagat attgtcgtct taataggctc 180  
 agagcttcta cattcaattt cgagcgtttc gatatatgac gggactcaat caggcatccg 240  
 tgtaaaaagt tattgtcggt tgagttggct cagagcttca acattcaatt tcaagcgtct 300  
 cgatatatga cgggactcaa tcaggcatcc gtgtaaaaag ttattgtcgt ttgaatcggc 360  
 tgagagcttc aacattcaat ttcagcgtct c 391

<210> 29092  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29092

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 ggggagggcn aanggagncc cagaacacaa cgagacgcta gaaggngaag gcngaagcgn 120  
 ngagcaaagg caaacgacaa gaacggnnca ctcggaagnc nganagagcc ccgnaacaaa 180



aggagacggn cgaaacngaa cggggaagct cngagcaaan ncaaacgaca 230

<210> 29093  
 <211> 209  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29093

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 aaagaaacnc gagccaacac ccacncgaac ccccgangcg ggccccacag aaaccccacc 120  
 gaacggagna aggcccgaac acggcancga aaaagaaaac cccgagcgag aacccgaaga 180  
 ccncggcacn gagnaacacc gagaagaca 209

<210> 29094  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <400> 29094

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 tttggaaaga cccataagaa ggataaaaag actaaaactt gcatatggaa gatgaggccg 180  
 atattgatcg atcttgcata ttgggttcgat ctagacgtca gacattgtat caatgttata 240  
 catgtggaga caaatgtgtg tggtagtggt attgccacac tccttaacat tca 293

<210> 29095  
 <211> 143  
 <212> DNA  
 <213> Glycine max  
 <400> 29095

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 ccccgaaag gacctggaca cccgccacc cactcggag acatcgggcc caagtcagcc 120  
 ggcgaaaccc ccgaaaggga ggc 143

<210> 29096

<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29096

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tttatccaca caggttcaat gaatagtaaa tagctgctgt cttacccgcg ggctattatt 120
tcctcctttc caattcattt ccatttatta aattttaaatt gggaatttgg atctcgggct 180
tccaagtgca tctgtattac tgtataaaat ttgggatgat aatctatgat ataaatatta 240
gtcagtcata attgtcacag atctaattaa acctattaac tttgcattaa ggcaactttc 300
tatttatttg gtttgaagat tttaaaccta tgcttcttcc attgcaaggt cctaatttca 360
ttntatccaa aacaaaagtg agaaaatcat tggttcttta atttctccaa ata 413
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<210> 29097  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29097

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tccttcggcg taacctcact tcaagaatcc ttcaccctc acaagttaag tcctattcac 180
atgctcctgc aacgccttag atgggttattt ggttgctact tatgcctctg tgaatttcct 240
ggtagctgag atcgggaggg acccaacagc ttgggatgat cctttggcct ttaagccaga 300
gaggttcatg aacaatggtg aacaaaatgg aggcacaaat tttgacataa tgggaagtaa 360
agagatcaag atgatgccgt ttggggcagg gaggagaatg tgcctggct atgctttgng 420
aaatttgcac ttagag 436
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<210> 29098  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29098

agctttaatt nttttaaaat taatttaaaa aataaattaa ttacaagagg gaccaaacta 60  
 caaaagcttc aaatttatta acttatcatg atgtggaatc aatttttaag gtggttgtaa 120  
 tctattggtc tacataaatc atggttccaa aaccctttaa aatgtaaagg tttcattaga 180  
 aaccacctaa aaatattggg taactctttg atgctaagga aacttatctc aagattccaa 240  
 tgactgacca aataaatttt attcattcca agaaaacatg attcccagga ttcattgattt 300  
 ctagcaatca tgatttctaa acatgaaaaa acttattccc caccaaagt cccataatat 360  
 gtatgatcaa caatttcatt accataaatt aattaattgt atttagtat 409

<210> 29099  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29099

tgaggagaca ttgaatcaat tcatacagat gtccatgtcc aatcnatgag cacaaagtca 60  
 tcaatcaaga acttgagat acaagtggga caattagcca aataaatggc taaaagaccc 120  
 attagcagct ttagagccaa cactgagata aagctcaaag aggagtgcga ggtaattttc 180  
 actatgaggg aaactgcaga gaaggaaagg agaattaagg aggatatgcg tgatgaggaa 240  
 ggagaaaaaa agaagaggga ggaaaagata agagtaagga gagtggtaat aaggtctcaa 300  
 ccactaagac caagaccaag agccagttag ctcatgaggc cagaagagag ataccaccag 360  
 cctcatcaaa aaaaggcacc ataccctcta gtgccatcaa agaaggacaa ggaacgctac 420  
 ttcaagtag 429

<210> 29100  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 29100

agcttgataa aattttaaga aaataagtac tagctcaaat ggtaaatagt ttctataatt 60  
 ttgaaaagta taatgtacat taacattagt gacaaaatag taaatggagt agttataccc 120  
 gatccaagaa atatttagca acattgggaa gattatgtaa ttcctttttt gtcttgtagt 180

tttcttgaac agcaggatct ttccagatct catctaccat aggagcatat tcacgcgttg 240  
cagcagggaa gaaggcctcc aaatctccga tggccataat atccagtaat cagtcagaaa 300  
agtgccttgaa tctttgatta tagagtaaac actcaccttg ttttcgtcag ctgctgtctc 360  
tgctaaatct attatacaat tagattcatt cacataactc tagcctt 407

<210> 29101  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29101

tctaaactnt gtacaagaat gaagctctga taccacttgt tagattagtt gcctcagata 60  
tcttaagaag ggggttgaat taagatatca caaactatct cctaattaaa aattctaatt 120  
tgattttaac ccaaactcta agattccttt taaaatgaat tcttaaataa ttattcaaat 180  
taaacttact gaatagaagc aataagcaat aataaataaa agagttaaag ggaagagaaa 240  
gtgcaaactc agttttatac tagttcggcc acacccttgt gcatacgtcc agtccccatg 300  
caaccgcgtt gagagttcca ctcaatcgca aaaacccttt acaagttctg aaccacacaa 360  
ggacaaccct tcctttgtgt tcagatttct ttacaacaag agaccctcgg tctcttaatc 420  
cctt 424

<210> 29102  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29102

gctgtgaata atagtcattg tcataaagaa gagaaaaagg tttttattta tacatgtatg 60  
taaaaggaaa tgtgtataga agaattcttg cgtgtaaatg atgtgtggaa aggaattctt 120  
gtgtgtgtga gcaacgagtg tatatgaaga aacttttgtg tgaactataa gtgtgtgttg 180  
aaaaaaatga aaaatctttg aatgtgaata gggtttgtat atagactata tgacgtaaag 240  
agaagagttc caatgcgtgt acagaaaaag tttgtcatgt ataagaatat agatgtacaa 300  
agaaagggtt tcctcataaa ggaccacagg tgtataattn tgtgaatgaa acaaaaagga 360

aaaagaaaga aagaccgcga aggtcgacat gttatagtta agaagtat

408

<210> 29103  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 29103

tgccgcccag ctcgcccagg tgagttcagc tcgcccagct agttttgttg cttcctcctg 60  
aagcaacagc cttctggagg aatcttcttg acggcccaag tggcctgggt gctatttaca 120  
ccccctggt tactaaatgc accccccttt ctattttttt gtaattcttt ttccgtaacg 180  
ttacgaaact ttacgaattt cgtaacgata cctatatctt ttccgcaagg ttacgaatcc 240  
ttacggatta tgtatttcct ctttttttagc ttctgaagaa gttacggaaa ctcacggatt 300  
gcacaaaaac accacttttc gatttccgcc acattacgga atttcacgaa tcacgcatgc 360  
ctgcttcctt tcgatttctg agacgtctcg ggacttcatt tattgcacgt aatcaagtaa 420  
taatc 425

<210> 29104  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 29104

agcttggttct gatgcttggc accaattcat gaccataaat cgatggcaac aaacacccac 60  
aaataaaggg atttagttaa tgcccacctt tcacacataa tctctcgga aaacaccacc 120  
cttccttaat aagaatccta caattaacct taacgagaaa aaagttataa aggtatacat 180  
tatctaattc tacacactat ttattcttat aaaacactga ctcgagcgtc aacatcttta 240  
tgaataccct gccagagttc gactcatagt agatcatcat aaatattgaa ttctgcttca 300  
aatacttttt aaccttaggc tataatgcta aacaagtatt accttcaaat tcaaatcata 360  
atattattcta agtcataata t 381

<210> 29105  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 29105

acacttttga ggactaaatt ttgtatTTTT atctttcagg aatgtatttg tcagcagagt 60  
gaaaaaatga aaaattaaac acatattata taacaaatat gcccttatac tgacaattag 120  
agatgacaac aataatttta gtaacaaatt catctctcta tgtcatgtat gttatTTTT 180  
taatggtgac ggacaaaagt taacagccag atatatttat cgcactttat acactTTTTT 240  
aaattctata tttttatttc tcaaagacac atttatc 277

<210> 29106

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29106

tatcttatga ctgagtcaat tcacctattg gatcaatgaa ccattgatct agtttgggtc 60  
aatttttatt taaaaaaaac aaaaatgata ttgattaata tacaaaaaaa tgaccaaaaca 120  
cgaaggagat cgtctctgtc tgtcaaatcc acatgaaact tttgtttaat gaacctttgt 180  
ccctaataata atcataattg gcctccaagg accaaacttc actagcattg tcgacctcaa 240  
accaccatca ctccaccaat gtcattccacc tcaaaccacc atcattccac tagtgtagtc 300  
gactatctct gtctctttgn tggactcact cagttgaatg cagaaccaac atcaatcaac 360  
tttgcacgc aacctcccat ggctccact gagagc 396

<210> 29107

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29107

acacaagaaa ctacgcttct caggaagttt ctcaaggaag ctacctaggc nattaatata 60  
aagcatgtgt aacacttggg gtaactttga tgaatgagag tcttgtgaga caaacttcaa 120  
agttcaactt ctctccctct tttcttctct caattttgtg ctccccctc tctctttctc 180  
cctctctctc tttcttttcc tccattgaag caccctctcc aagcttctta tccaagacac 240  
tctcttgggt gcgaagctcc ttcttccatg gcttattccc tagtggtatga cgctccccc 300

cacctcttct cttttatctt ccactgcac tccatgatgg gaaatcacca ttgaaggacc 360  
 tcattgaagc tcanagatcc agtctccata gaagctccac aagcaagctt acataaaaaa 420  
 gaaataataa atcacaatta attaa 445

<210> 29108  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 29108

ttgtgggttt aatatagaag tgaggggacaa ggttgaactc cttccatata gggacctaga 60  
 tgagctagtc caactttgta taagagtggg gcaacaactt ataagaaagt cttcttcaaa 120  
 atcttatggc ttttactctt atccaaggaa ggaccaagcc caaggaattt tggggactgc 180  
 accttcaaaa cccaagaaag ataagggtaa gaccatagag aaatccaccc ctaagactag 240  
 ttctaagaa aggactagca acattaaatg cttcagatgt cttgagagag gtcacattgc 300  
 ctctcaatgc cccacaaaga gaaccacgat tatgaggggt caagacattt atagtagtca 360  
 agaggagact acttctcccc cttccttttag tggaagtga gatgaagt 408

<210> 29109  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29109

tatagtgcga gggatatgaag agaaaatcaa ctaggattaa tanatgtttt atgagggggg 60  
 gggaaattga taaagggtta agagacttca gtttaatact cacgcagtac atttttaaag 120  
 aggaaaaaaa ttcaagtgtg attaactctt aaaattaaag actaatccta taatggatat 180  
 atgaaagaat caaaacaaaa agaaatgcct tagagtttta atcaagagtc aaaaatttaa 240  
 attaatatgt tagttatata taattaaaaa aaaagagAAC taaagtaa atgtacatgggt 300  
 ggattttgtg tcaacacaat agtttgtgta cctagccaat attaaattat acttcattgg 360  
 ttcctattga taagactcaa gtttaaaata atgtttgttc tttttttata agactcaatc 420  
 taccatgttt c 431

<210> 29110  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 29110

ggcgaatcga gctcgggccc gtgatactct aatcagctgc cgcattgctat ctatattaat 60  
 gagcataata aaatccaaat agatatatta ttgctatagg gatgagaaga aatgatggta 120  
 aaccatattg gggtgcaata gggaagagga gaaagaaatg gaagccttat tgagacgac 180  
 gagtaaggca ctacaacaca ttataaacga tgagtagtag tcgatacaga agatacgtac 240  
 tactgtgtat atggatatat aattgacctt tgctgacgca ttaatatgtc tacacaatat 300  
 gtatcaagaa tgtgcttatt ttaagatata tagaagatta cattgccagc gtcaacattt 360  
 agatactaata ttagtatata tatatgtata tatatctata tgtatatata tgtatatatc 420  
 tctatgtata tattgatata tctatatata tat 453

<210> 29111  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29111

tacaaccata aaccccnngc aaaaggggca gnangcgnac acacgcgacg agcggcannc 60  
 cacaanncag cccaagaagg ccaaaagcac tagnnnccta agctgctcca agataagact 120  
 ccaagcatca attgatcacc ttagtctgac catcaaattt gggatgtgta aagaaactca 180  
 ttctcagttt ggtgccctgc aaggagaata actcctgctg aaaagtgcgtg gtaaagagat 240  
 gatccctatt taataagaac agacaacgac aatttttccc cttatgttta tcagaattaa 300  
 gctccttgac caagcttttc ctttaaggag aagaagaagc caaanattag gccaacgaca 360  
 atctaatacct tgtacata 378

<210> 29112  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 29112



tatcttttat cattctcaat taggtgttgt aaaattggct gcattgtttc tttattaaag 60  
gaagagtaag cagaaaagaa ggggtgaataa cacattatta cctataatgt gtattgggcc 120  
ttccttgact atagtccata tccttgcaag attttaattt tagtttacct gcgcacatga 180  
ttgactttct atggaaaatg gtaataagtt atcataatag tagatagagt aacatttcac 240  
gacttattat gcaatgacaa taagtgtatt ttctaactag accattgtta tttgatttgt 300  
gccttggaag gattagtatt accaattact gtaaatgcat tattctccat atgacagtta 360  
tttatttgca accacagaag ttacattatg atattaaaag tt 402

<210> 29113  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29113

tcagaccaca acaacacana atctatgtat ccaaaatcct gcaanttttt ggatccncaa 60  
ggcngagaa gcgaaatcga gaatgggata aatccgaagc aaactctcac ctacaccag 120  
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180  
aaattttact tctcaacacc caattttacc ctgaaatgg ctctttgttc acttttgtca 240  
tttgtttttc tctctgttac agcccaagct ttctcataag tcctaaatga catttcaagc 300  
taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360  
cataacctct ctctttgtc actcataaca ccatattctc actttctaac cctaagttaa 420  
c 421

<210> 29114  
<211> 399  
<212> DNA  
<213> Glycine max  
<400> 29114

tttcttgtcc agagaaggaa tccacggagg aaatgcttac cacctcgaaa gactggaaag 60  
cggttttctaa tgacttctct acggcctcca cataaggcat agaggacggg cagctcacca 120  
agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180  
gggtggagtgt agagggaaca actcccaccg agtggatcca cgggcgcccc aacaggcagc 240

tgtagggggg ggttaatatc cattatttgg aaggtaactt gacaggtgtg agggcctatc 300  
tgtactggga ggtcgatctc tcccctaacc tctcggcggg tgtcgtcgaa ggcacgaacc 360  
accatggaac ttggctgtag gtgggaagca ttgaatggt 399

<210> 29115  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 29115

gggggagacg tgtagtgaag tgtgaagttg gcattttcta tcttaaactc aatggaattt 60  
cccaaatttt gaaattttgg tcttgtacga gttagaactg tgttccttta ggataccacc 120  
agaccaaagc tcatttttaa tacagacaag aatatattag tttatatatg atatttttaa 180  
tataaatttt aaagagaata tgataaaaaa gaataacaat aaacataaac aatgaaaaac 240  
tattaattaa aataatagga aatataggat aaagaataaa taaatatata acaaatacat 300  
aatttaataa attaatgaat taataataaa taatatattt caaattgtaa atttattaac 360  
taattaatta attggtatta ttaatttata attggtgtaa tctttgaagt aagcagagat 420

<210> 29116  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 29116

tctgcaggcg agctgcgggc atgcacgctg tatgatgggt atgcttgacg gaatgcccat 60  
aatgtgtaca ggatatgtca tatgcccaca ccagtgtatc tatagaacaa tagatgatgc 120  
tcttatgaac aataacctag ttcttgtctt ctgctgattt gttagcttat gcattctaag 180  
gcatatatta attgaagtca tgccttacta ttgaacgaat gccactacct cggaacacgc 240  
gagaatagta ccctgaacat ccattatata cctctggtac ccataccta t 291

<210> 29117  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 29117

tgctccanag aataagtga ctacatcttg tttatttctt tttgcaacat ccccttttgt 60  
accccaaagg tgaagatggc tatagaccaa atattcttca taaggatcat ccaaatatct 120  
atgttgcaaa gaggaaaaaa gttatcatgc gtgaatgcaa tcaagggaca atgaagctca 180  
cacaatgcta cattcaagaa gattgtttca acaatggatt attaatgaat attgtatgat 240  
tgagtctcaa aaactaaact atgttagaaa acatcaacag gaactcagag ttaacaagta 300  
catgaattta aatgcatgta ataatgagcc cctaaccxaa ggcaatgaan aaggtaagag 360  
aattatacta ccaagctttt ttgctggtag ttagagatat atggaacaac tgtatttcga 420  
t 421

<210> 29118

<211> 391

<212> DNA

<213> Glycine max

<400> 29118

tgtcttttct tgtttctctc cccatatgaa accaacattg ttcttgagca cttcattgag 60  
aggtgttgcc aatgtgctaa aatacttcac aaatcgtcta taagaacttg ctaagccatg 120  
aaaactcctc acctcgggtca cagacttatg tgtaggccat tcttgaatag ccctaaccct 180  
ctcctgatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgtgt 240  
agtacaaaag atgcattttt caagattggc atacaatcgt tcttttctaa gcacagtcaa 300  
gacagatttt aaatgatcaa tttgcaaadc aagcgaagtg ctatagataa gactatcatc 360  
aaagtacacc acaacatact ttcctatgaa c 391

<210> 29119

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29119

actaactctt atctgtgggg gaatctctct tttttgtttt attagnaggn gcctcttctc 60  
acctattctc ctttatcttc cactgcaact ccatggctga aaatcaccat tgaaggacct 120  
catcgaagct taaagatcca gcctcataga agcttctcaa gcaagcttcc atcaagtgg 180

atcagagcac aagaacttca agtaggttgc tccttaaacc tgcattaatt tttagcttta 240  
 ccttctcctc cattgttgtg tcttcatttt ctccatgtat ctccctcacat gtcttgtgtt 300  
 gaatgttgtt aacatgattt tttagaattt ccactgatta aacttgctat agaagctaga 360  
 ttngattgtc tatggtacaa atttcttgtt cttgttcttg aacctgagt t 411

<210> 29120  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 29120

agtgtcatag tcatagcatt attgttagta tttcttatag cccataatgg ttccgataat 60  
 gtttcatgcc aacacctgtg tttcttttca acaaattttt tgatttaatt tacaataatc 120  
 ttgttagtgg cttctgcttg tttgttagct taggcataga aaggcataaa ataatgatt 180  
 tcatgccaaa ctattgagcg aatgccacta ccttgtcaca tgtgaaaata gtaccctggg 240  
 catccattat agcctctggg atcccaaate tataggctat ttggttttgg atgaatttga 300  
 tgatgtcatt ttgagtaaca gagaccatca gttgtgcctc caccacttc gtgaagtaat 360  
 gtgttgccac aataatataa ctatggcatt tagaagaact aggggtggatt tt 412

<210> 29121  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <400> 29121

tctctaaagc tatggatgag gaaataactt agaaaattct tattcattca ctgcctcagt 60  
 gcgccctatg cgctaagcga gtcttacttc gtgcgctgag caagttgtca ctacactaa 120  
 gcgcgccaac cccacccat tggctgaagg ggtctcgcta agcgagacag ttgcactaag 180  
 cccaacaagt tccatatttc aatcttaaca ttgttacata tttcaatgaa agttgccaag 240  
 tgtgcataga gatcttcatt aggtaatoct tcaaataagt tcccttgcac taaatgaatt 300  
 aaggaatgtg gatagttgat gttgttagct tgcacttcaa aacgtgcaat gctagtgaag 360  
 aattgtggta ctgaactact tgagtaaccc tcaagggtaa tcctctgggc atgctcttct 420  
 gccatggtaa t 431

<210> 29122  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29122

agcttggtaca acaagtaact gaatctgttt ttggtactaa atgaagtaac taactaacta 60  
 atttccacta atatataaag ttaataactca gaaggatggg atgggccttg attangccca 120  
 tctaactcttc cttattaaac tgattacaca aagcaaggcc caaattcgta gcccaattac 180  
 tcaagtgcgg aggttctgac ttccaagccc aatttgaccc tcaaaatgga agaattggac 240  
 caagcttatt tgtgacaaca ttgaagatat tgtttcttat ctttcaaggg actaccact 300  
 ctccatttgg agtccttttag tgtcctatat gccctgcaca agacagatag atcaagtaag 360  
 cacaaaaatn tgaaaataag ccacaatgat caattaagct caatca 406

<210> 29123  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29123

ggcttggggg gcttcttttg aggctggatc ttcgagcttt tattaggtcc tttaatggng 60  
 gntttccacc atggagatgt agcataacac aaacgacaag aggtgagagg aggcgccatc 120  
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttgagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240  
 catgaaattg aaggaagaaa aaggagagaga agttgaactt tgaattttgt ctcaagac 300  
 ttcattcat caaattacaa caagtgttac atatgcttct atttatagac aaggtagctt 360  
 gcttgagaag ctttcttgag aaaatttcct tgagaagctt ctttgggaaa acttccttga 420  
 gaagctagag ctt 433

<210> 29124  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29124

agcttctata taagctgaac cattttatca ataaagacaa gttgagtttt attcagaaaa 60  
ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgccct cgctggaaa 180  
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240  
tccacctctg cccagaatta tctcgtggcc ataactccca ttttaogcac tcaaattaag 300  
tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgttn tggaatcacc 360  
tcattnggag cctgtagct tcagttattg ccatttctat atttct 406

<210> 29125  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29125

ntntggagta gaaacatggg accaactcat tntatttcat taattcgtat ctagtcaagg 60  
tctgagagac cgtacaagtt tcctagcgat ttctaattat gtgggtcatt aagtctatca 120  
tatgctgaca atagctgaga agcccgtaga tttcttcggg ggcgtagtag gtgtctgcca 180  
tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240  
accgatccat ccacatggtt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300  
ctttttccgc gtatacttgg gcatactcgt ccgcgaccct atgctcgtgg gccgtggcta 360  
gacctaaactc ttcttggtag ttggcgatga tagctagcat gttgggtctct gtctcgcata 420  
aac 423

<210> 29126  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29126

agcttatgaa tttaaattgg atatgttatg aatatatatg aaaatatcgt tcttttgcag 60  
atacattcaa gttaaaggtc aagccaggga agacatacct tatgcgtttg atcaatgctg 120

cactcaatga cgaactcttc ttcagcattg caaatcacac cctcacagcg gttgatgtcg 180  
 atgcaattta tgctaagcca tgtgacactg acactattct cattgcccct ggacaaacct 240  
 gcaatgttct tctcaaaacc aaatctcact atcctaattg cacattcttc atgagtgtca 300  
 taccatatgc gactggacaa ggtacttttg acaactcaac tgtggctgct atccttgaat 360  
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<210> 29127  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29127

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 tcaagaacat cttatgatac cttgtggact ttgtataatt ggtaataatt tgacctatgc 120  
 tactatttac aatggtagct ggagccatga acatttgggc aatttcaaaa acttgctcac 180  
 tttctattat agtaccaatg cctccaattg ctttcacaac agcttcaactg cccaagtac 240  
 ttaatctaca gtatacaagt tgtcctttca ccttttttgg ctctaaggag tcttcatagc 300  
 ataatctgtc aatgcattga aatggtactt tgtaatatg gaaagcttaa ctaggtgttg 360  
 tcaataaac aaaaagaaaa ttacttagca ttntccttgc ttccaaattg tataatcatt 420  
 ccttatc 427

<210> 29128  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29128

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 tcactttagat atttogtacc tatgttcttc ctcacaaatt cagacaaact tgcacaagca 120  
 gcacgccctc tttctaggca gtgaagataa tcattcacta gaaataaaaa aaaataaaca 180  
 gaaaactaat tagatcattg tgaaccact gaacactgta tttttcacct tatcattttc 240  
 tttattatct tattatttat aagtcaccag gtctagccca aaaatatata ataaggaaag 300

aggaaacagt cagatccacc agaggttctt taatagattc atggcccaag cacaattaga 360  
tcttgacat tntattgatt ntattctgca tatctcccat taaa 404

<210> 29129  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29129

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cttaacgitt tttcattttt tggttctgta attttttttt ctaattttaa tccttatata 180  
ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240  
tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300  
atgtgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360  
aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaac 409

<210> 29130  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 29130

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caaggcatat tttccatccg ccggtgatgg ctattggatt aaaccatcaa caaacaatt 120  
ttttttcgca cttacagata gagcaatact catcgatttg ctccaagtag tgtaattatc 180  
accattcaat tgtttggtga ctaaactaac tcctgcatga tatgaggaat gaggacaaaa 240  
cgatttgaac gatccataag gggattggta gtggctgtca tttgtggtta aattaaaaaa 300  
aaatcccaag acatattgct ctaataccat ttacaaatga caaaagacaa gacaaggaag 360  
atcagatgta ttggctcata tagc 384

<210> 29131  
<211> 437  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 29131

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ttcttagaaa tgtgacctaa gcgcttgtgc cataatgctc ctgagtttgt attatcaatt 120  
ctacgcttag taccacacaa ttctgtatta aaggattcac cataggaagc tacactatca 180  
agtaaataata gattatcatt aaccaagagt gaagcagttc caacaatatc tgaattaaaa 240  
ggtaacctaa acacattggt tccaaatgaa cacaaataac ccaatttatc caaataagaa 300  
actgaaacca aatttcgtct aatgacagt acaacaaaag tgtctttcaa atccaaataa 360  
aaaccaatac ataataataa tctaaagtgc cttatagctt ccacttccac cgatgtacca 420  
tctccaacat agatcca 437

<210> 29132

<211> 439

<212> DNA

<213> Glycine max

<400> 29132

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attgagtacc ttgagacctt ctctcctgat gagaaaattg agacaattcc agctattctt 120  
gcttaagact gcatcaattg ctggaaaact cagctacttg atgttaacaa tgcattcctt 180  
catggaatcg catctgagga agtctacatg gtccctcccg ctggcggtcaa tgagtcacat 240  
ccatctcaat gttgcaaact ccttaagtct ttgtatggcc tcatacaagc caatcgagca 300  
tggtatgaaa aatatccctt ttttctcttg tcttgtggat atcatccagc tcatgccgat 360  
catagcctgt tcatcaaaac taatcagtc aactctatag actttatata tttattgttg 420  
gcggcattgt gctaactag 439

<210> 29133

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29133

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ngaacnatnc ccacagcaat atgctattct gagagcttca attacagcca gcgagtacct 120  
agatggggta agtgtacatt caatcaatac cctttaaagc aaatgttttg attatttgta 180  
gttatagcgt ctagatactg atgggtggctg ttttaagaga cgttgtccaa gtgctttgac 240  
ttgatgcaag acatgatgag aatggaagca aaggagttaa tgatagatac aagcttttta 300  
agcacagaaa ctccagtgag tatgttggag agaaacacta aacgacaaag aatttagtgg 360  
tttatatatg ttgcagaaga aaaattcaat tntctcaaac ttaagaagaa gaaagctgag 420  
ggaaaag 427

<210> 29134  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29134

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accaacacgc tctttccac cttctctctg tctctcaggt atatttgcaa ttcatgcata 120  
ttgatatgct catatgcaaa aactagtttc aaattttatt cttgcgtatg gtgtttgttt 180  
attatatgca tagtttgtca atcttcttta aaactttatt ttaatatataa tggatgtat 240  
tgaatgtttt taatggttga gataggtagc actgacacag aagtgtgaa tttattggca 300  
gttgaaagga gaagagatac ttgagcaatt cgaagcttct agttcttctg agccggtcgc 360  
ttctataact canganacag anagtgaana tgaggatgct 400

<210> 29135  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29135

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ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gttccctct 120  
ttgttttctg caaaaaagaa aatcaatatg aaacaattta ggctgaattg ttatcgttat 180

tattactcga accataagga ataacaacta aacaagtcac ttaaaatgta actttgaagt 240  
 taattggtat ttttttaatt acaagtttac ttcaatatct aattttttac tctacttagg 300  
 tcgttttttt aatatgaata tgaatttaaa ggtgatatac agataatata aatgacttgc 360  
 tagtcacaaa ttgcgatacc tatcattntt aattntaact tactttttata aatattaata 420  
 aat 423

<210> 29136  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 29136

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 atcatatatt tgctgccagt ttaattatg caatacacat aactattaaa ttgttttcaa 120  
 aatcatttta acttgctcgtg cctcaaagtg attagacttg ttaggttccc acaatggatc 180  
 ccatcataaa actcatcgcg cattaaactcg ttgcccttaa agggctttac agttgtgtga 240  
 ttgtacagtt catagctcac aactcaatgc gtacaagatc tcaatacaca tgtatcttac 300  
 aattcaacac atactcaatt tatcacatac acccaatctc aatcacaatg ttataatacc 360  
 aacgcaccat gttatcacat ctcataaatt atatacacat cac 403

<210> 29137  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29137

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 cctagatctt caaagatgga agtcaaactt ttactttttt cttaatcttc ttgagagatg 120  
 ttcttattgc tctcatagtc cttggataga aggttgacct ctttctccaa cccttcaaag 180  
 aatccatggc cttcccaacc attatacccc ttctggaatc tccttctca ttggcttccc 240  
 tcttaatcct cccttgccct taatcatttg gggggc 276

<210> 29138  
 <211> 399

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29138

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attctttttg ggtacagcca ttatttataa tatagttttt tttttactaa attcctttgt 120
aattttaaac agattcatat tttcattgca tgggtcatgt tattcaatct catagagtgc 180
attcttattt ttaatgtgct aacatattct cacctttcat ttctagtaga ctatctaagt 240
tatttgaatg aagaaggact agctatattc ttagaatgcg gctttgagcc taactcaact 300
ttaaaaagcta gcttataggg tgagggttgt gccctccact tatatagtcc atcttggtac 360
tatctctagc caatgtgaga cttgaatttt ctcatcac 399

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<210> 29139  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29139

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cngccgcact caccacggnc actacgagca cggggggang ccatnogggc tctgcaacgc 120
accgtcaatg tttcaagctg ccatgaacaa ctttctcagc cctttcctgc ggaagttcgc 180
gacagttttt ttttacgaca ttctgatcta cagcgaaatc ttcagtgatc accttcatca 240
tctcgaatgc gttttcaact ctcttctgca ggctcattat tatttgaagc aatcaaagt 300
cttcattggc taacgccagc ttgattactt aggccacgtt gtctccggca gcggtgtcag 360
acctgatcca acaaatatc aggcctatcg caaatggatc acgcctcgat cttccaagga 420

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<210> 29140  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 29140

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ctcttaattg gccttgggac tggcgaaacc caaccaccaa agtccttttg gcacctacta 120

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tatgtggact tgaccaacgc tgttattgga atgttgcaac aatttttcaa caccttattc 180  
 acacattctg ataagtgggt tgccatgtga ccatatcgtc ctccatatgt atgcgacgcc 240  
 atgctccatt tttccttaga gattcgatca atcca 275

<210> 29141  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29141

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 ntacaaacca ttcccccaatt aaaaattcta ctttgatctt aatgcaagtt ccaagttccc 120  
 ttaaagatga atttctaaat gatgattcaa attaaacaat ctgaatgtaa atgttaagaa 180  
 acaataaata aaggagttaa aggggaagaga aagtgcaaac acagttttta tgctgggttcg 240  
 gcaaagttcg ttgcctacgt ctagtcccca agaaacccac ttgggagttc cactatctcg 300  
 canatccttt acactttctg aaacacacaa ggaaaaccct ttctttgtgt tcagatactt 360  
 tataacaaga gactttcagt ctcttagccc tttgattaga aagagaagaa gaagaagaag 420  
 atg 423

<210> 29142  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29142

acaccggaaa gaaaagaaag acggagagga gaatcaagga aaaagaaaac aaccaaaca 60  
 agcttgagat cgagcctgca aaccaaannn nnagggncgg ggaaggaggg agaaaaaaaa 120  
 gtttttgagt gagagaagag aaannagggg ggggaaagag gaagaaaacc caccaaagc 180  
 agagcaaagg acagaaagaa aacgaaagaa agacgaagag aaaaaggaaa ggaaaagagg 240  
 aaagaagaaa gagaaaagga agaaaacagg gaaaaggaag agaagcaaag gaaaaaagga 300  
 aaagaagga aaaaaagaaa cgaagggaaa ggaaaggaaa gaagcgaagg gaacaaaaga 360  
 cacggaggca agagaaagga aaaaaacaag aagaaacgaa aagcagaaca ggaagaaaaa 420

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aaaaaagaga gg

432

<210> 29143  
<211> 322  
<212> DNA  
<213> Glycine max  
  
<400> 29143

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tgagtaaaga tcgtttaccc actcattaat acaactagct tattgctaga aaaatcgagt 120  
catattcata gttctaatagc tttcaatggt aatttcctta ttgtggtaat gcttcttctg 180  
atgatgagat ggcttttgat ctgtggatga atcttctcca cccgaaaag gatcctgcag 240  
tgcaagattg accaaagttg acccaaaaaa gtcattcgtg tccatttttt taaaaaggag 300  
tacacttttt tgattggaaa tg 322

<210> 29144  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29144

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ttttctcttt tttaaaagaa caagaaaaat acagaggaag ggaatccctg gaggaaacca 120  
ggaagaacaa aaaactcaga attgaaagaa catgcaatgg tcctcttgat tgccccatat 180  
ttcaagcgta atatcgttta actacatcgg agttcacggg cgagggaat tcctcgccat 240  
ccatgtgggt gagtatcaaa gcacccccag aaaaggctct tttaccatg aaaggtcctt 300  
cataatttg ggcccacttg cctcgtttat cttaaacagc gtgggacatc ttcttcaaca 360  
cgagggtccc ctcgttgaac ttgcgcgggc gtaccttctt gccgaatgcg ttctttatcc 420  
ttcgttgata caa 433

<210> 29145  
<211> 53  
<212> DNA  
<213> Glycine max

<400> 29145

ggctgattgc tttttattta atgagctcct gccagaatcg actagcacag agg 53

<210> 29146

<211> 260

<212> DNA

<213> Glycine max

<400> 29146

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acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120

ctctttttga tctctttttg atgcagatgg aggagccttg gatttgagga caaatccttt 180

tcaagaagga gggagtgatg aggacataac caagggcaag gaccatgaag cacttgaagg 240

tcccatgacc agaggcagac 260

<210> 29147

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29147

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ctcctacttt ngaaggacaa ctcccacctt atgaagacta tcccggacaa gatgatgggg 120

aaggagatac ccatcttggc ccctgctcc acctcaaaga tccatccccg catgaactac 180

cccagctgaa catagtccac catatcccg cctcatccac acccataaaa gaatttggtc 240

cctttgcgga agataaggga aagatcgagg cgcttgaaga gaggttaaga gcagtcgagg 300

gcctcggtaa ttaccattc tcggatttgg cagatttatg tcttgtgccc aacatagtca 360

tccctcccat attcaaagta cc 382

<210> 29148

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29148

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aaaggggggaa aagaagtttt tgaatgcaaa aacgtccccc ctttcgtcat tcttatattt 180  
tggtgcaggg gtggctcgcc caggcgagct aacgtgcatt tttttttttt tgagaggaac 240  
attaaccatg tcccctcctt ccttatgggt tagcatcttg ctttaactga acttacttaa 300  
gttagagttg ggcattgatt acttattntt ataacaaaca aaaagtaaaa gaaaactgcg 360  
aatacaaagg atacggggct gccttgcagc gacgttctcc gc 402

<210> 29149  
<211> 411  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29149

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acctggagaa atgncgcgcg ggncaagaga ccccggggac gncagggggg gngctatngc 120  
ccaaaaccaa gctggaccaa tcccgaccca acccaggcat agtcggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
aacaaggagg cttgtgggtg ctggccagct gtgaaacttg attgatatgt gagatatggt 300  
ctctgggaat cgattaccaa gggtaggtaa tcgattacaa ggctcaaaaa tgaagacagg 360  
gggctaagat ggtctctggt aatcgattac caggggaatg aatcgattac c 411

<210> 29150  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29150

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atatccttaa ggaattttgg agctttggaa ttgttttggg aataagtgtg gggggttttt 180  
gtttcattgg ataacttggt atgttggcta tgcttcatga tgtatttttg gccatacttg 240



atgtacattg catattgggtt aaatgttgga catgctgaat gaaatgttgt ttctcaaacg 300  
ctatagagta anacaaaaat aatcgaaaca tgagaaagaa aagcaataga gttgagttaa 360  
taagatctta catggacaag aatga 385

<210> 29151  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29151

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aaagattatg atgatggatg gctcaaattc tcacaaaagt aaacttatca ctttcaaatt 120  
gagctttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt cacaaaatgt 180  
caagagactt tcattttcag aacaattacc cattacttga acatattcta taattcaaag 240  
acaaacatgc aaatttaaca caacaaaact aacaagatta aactagaacc caacaaaact 300  
aacaaaatta aactaattta acacaactaa caaaaccata accaaagaac actcccncca 360  
tacttaaaca acaca 375

<210> 29152  
<211> 233  
<212> DNA  
<213> Glycine max  
<400> 29152

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aaaaatggaat tcatcactga agacgctaac ttttgatata gggatcatgcc cttacgccta 120  
aaaaatgtag gcgctacata ccagagattg atggaccaga ttttcaaaca atagatggta 180  
caataagttg aggtctacat tgacgacatg gtggtaaact cccatagcat acc 233

<210> 29153  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29153

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 gatataattac aggactcaat cagaaatccg atttaaattg tattcattcg gacatccgag 180  
 taaaaagtta ttgtcctttg aatttgctac gagcttccgg tttcaattac ctgcatctcg 240  
 atatactatg agacacaatc ggacattcga gtaaaaagat atcatcgttt gaatntgctc 300  
 agagccttcg ttgtcaattt cgagcgtctc gatataattac gggattcatt cagacatccg 360  
 agtagaaagt tattgtcatt tgagtttgct catagcttct at 402

<210> 29154  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 29154  
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 tgaatgacca ttaaaatgac taattggaag cttggacaac tcttgatgtg ctctccacga 180  
 tetgcgccat gccttatatg gcttcttgta cttttctaac actaactata aaacgataaa 240  
 gtagagtctt gccataaatg gtaaaaattg tttttgc 277

<210> 29155  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29155

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 caggcgaatn gagctcggga cacgggatac tctagagtcg agctgcacgc acgcatgctt 180  
 ttaattctta gtcatgacg aagcacgatg aagtgaacca cgatcacaag caacgtatcc 240  
 taacgaccgg ctggagacaa aatgaaaat acgaaaggga tggaaaagtc ggagggccta 300  
 acaagcatcg cacatgtaac gacgtcacct cgtcgcatca tcctgttatg caggaaccga 360  
 cggatggcta cttaaggacc ttcacctcaa gttcctttgc gcatccatg cctgaacac 420

cacttgtggg atgggaatct gggcacatgg atacatcaag caatacgcgga tgattctgac 480  
 attacacaat caattccaaa gaaacaggca acggcagaac gtgatggcta cacaatgaac 540  
 gaatgctg 548

<210> 29156  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 29156

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 aaaaaggat attatgtgca tgttagaaat gatgtgactt ggccctgggt gaactacaag 120  
 cattatcgat aaacattagt tattagtttc ttcattcttt tataatatag gttgatcaga 180  
 gtttgtgtga gaatatgatg aactacaagc atttaccacc tgttactatt tcatttcagc 240  
 ttcttaaaca gctacttcat tttttttatt tggatatatt tttgctcaaa aacatgttga 300  
 taaaataaaa tttgtttaga taatatgatg agaatatgat gaac 344

<210> 29157  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29157

aagggcagga gcaaaagggg ggcccaaat aacaacatac aagnataggn athnaactct 60  
 caggagaaaa aaaatctatg cactgatoga tatttacagt ataataagat ttatacaatc 120  
 attcaattac aatcaatcat gtataataga tgttcggatg attaaaacaa ttataaagta 180  
 atacaaacga taattttgtg ttttaactaat aatataaaat tgttttacat tatcaatgtg 240  
 taggcattac agtctacaag attatatatta gactgtatat gtgcatcttg agaaataatg 300  
 agtctttaat aattatggat attttgact 329

<210> 29158  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 29158

atcttttacc tcacgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
tcggactctc agccacttat gatagccgcc gatgatccca ttacggcttc ccctaagctc 120  
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttatggta ccctcgcgtt 180  
gtggctactg aaaccccggtg cgatgaaagg cgtgatgcta tcgtctgatg gcactcctct 240  
catgaggtag ccaaacggtc ttatggcgag gacgggatta taatcaatac aacccttgt 300  
tccatcaagg gaaccttt 318

<210> 29159

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29159

ttccccagcc ctttctcatc aatggacgcc tttttaagtg ncttacaagc gaaagcgagg 60  
gnaaagggga gatcacgcc tctcctctct tgaatttcta tcgtctctcc tctcactctt 120  
tgactgccct tctaccttct tcagttatcc ctcgatatgt ccttcttttg aaccctccct 180  
tgcacaccat ggttgctact ccattcaccg gtggtgactc ttccgtaact gaacaccatc 240  
gatttgtaa gagcctcaga ttcacatcta agtgaacaa aacgacgtcg tcttgaaga 300  
tgcactcaat tctgaattcg caagaggtgt agatgatagt gatgctgggg ttgaactcgt 360  
tgatgaagga ttggaatgag ttacaacacg actctgagga gttaac 406

<210> 29160

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29160

agcttttctc ccacgaagag tctctgcggg tctgacaaaa ttgggcccac ttctccttgc 60  
taatgtcgta cttttcgcat agtgtcatcg acactttcct tgtcggctac aagtgttat 120  
ttcaacgtca aatcagactt aaattttctc cattgtctcc ccacagtctg aagtattttc 180  
ttttttgtcc tcagatcaga tgcttcaggg atatcanatt caacctaaca aatggaaaat 240

cacattctat tgttactaaa ttataatttg attgttaatc aacaaaatgc anaatttaac 300  
 taaaatacta gaatatcctc ccatatcaaa tcctnttaag cagcagagac ttgtttccat 360  
 agtcgtatgt cacatca 377

<210> 29161  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 29161  
 agcttccatc attactccac ctctttttgc aacagattgg atagtggaag ggccactttg 60  
 ctaaaatcct tgataaagcg cctataaaac cctgcatgac caagaaaaga acaaacctct 120  
 cgcacgcaag aggggtaagg caattgtgaa ataacagcta taccttggtc taccatgaag 180  
 tgacattttt caaaattcag cacaaggtta gtttcaatac atctactaag aactctatct 240  
 agactatcca aacatgtatc aaaagaggat tcataaacag taaaatcatc cataaacacc 300  
 tgtatgcaac tctctaaaaa atcattgaaa atgctaagca tacaccgctg gaaggtagca 360  
 ggggcgttgc attggccaaa gggcatcctc ctatagacaa aagtgcctg ggg 413

<210> 29162  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29162

tggaaggtag tcataacctca canaatatat gtatgtgtgt ttatgtagtt agataccttg 60  
 gatatgcatg tatataacaa acataacctca caaaatatat atatgtatgt ttaggtagca 120  
 agataccttg gatatgcatg tatatagcaa aaatatctca caaaacatat atatgtatgt 180  
 ttaggtagca agataccttg gatatgcatg tatatagcaa aaatatctca caacatatat 240  
 atatgtatgt ttaggtagca agataccttg gacacacatg tatatagcaa aatacctcac 300  
 aaaaatatac atatgttttag gtagcaaaat acctcatgga aaaagaaaaa gagataaaaa 360  
 agaaaaaaaa ataataataa gttgtctagc taaaaaaaca acatgcttgt gaaaagagat 420  
 aact 424

<210> 29163  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29163

agcttgtaca tatcacactt gtaaaaatta ctgagaattg gttactttga attctcgagc 60  
 tgaaagtttt actgaatttt ctagacatct gaaaaaaagt tataaaaaaa gaaccaggtg 120  
 gtttgataa aaggaaaaaa taataaaaat cacacaagtt ggcagaaaaa tcagtatcca 180  
 aaaaaaaaaa gagtgaagg gaagtgtgct tgttgttttg gctgaaaatt tattctataa 240  
 ttgctgccta tgttatacca atcttagttc cgaaatttca atagaaaatt agtttgaaaa 300  
 caagtgccaa agctagaggt ttgttgagtc ttttttttat agtttttttt actctactct 360  
 agagccattc taagtttctc tttgagtcct agcttgcttc tatgtccttt 410

<210> 29164  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29164

tctcgcccaa ttntctataa atagggggag aagtgaagna gtaatggttc agccccttag 60  
 gcacttctct ctctttcgaa tttgcttagg aaaattgttt ccgtgaagaa aatccaaacc 120  
 aaggcgcttc cgtaacgttt ccgtgggtga tttcggaag gttttcgacc gtacttcgac 180  
 gttattcatt cgttcttcat cgttcttcag tcttcaacgg gtaagtacct taaaccaagc 240  
 ctttcaattc attctatgta cccgtgggtg tccacatttg gtttcatgta tttttattct 300  
 cgttttcatt tactttttat acccoctttt gacgtgctta agccatatat ttaagtaatt 360  
 tctcgcttaa cctaaaaata aaacaaattt ccaccgatcg tttgaattgt atcatccgtt 420  
 aatttcg 427

<210> 29165  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29165

agcttcatgt tttagttaag cattttctac taaaatatta atttggtcct ctattttaatt 60  
aaataattta atttattatt ttttattatt aaaattttta atttaatccc ataattttta 120  
aaattattgc aatggcatcc ttttcgatta attacaaaaa acgacatcaa cttcttgtat 180  
acatgataca acaaaaataa caacacatat ttatcacgca agacacctta attaaaaaaa 240  
attaaaggaa ataatattaa tggaataaat cgtatccata gaaaaaaata ttattttgtg 300  
tgtactcaac ttttcaatga agatcagtc tcaactttta ctaaactatt tcatataaat 360  
attaagataa aaaaatatta catcagctnt gataataaat aaattcat 408

<210> 29166  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 29166  
tgtgactggt cgaaagcaaa aagatgaaac tattgcagct tattttattt tgatcaaaac 60  
tcaagaagaa actcttgcag ctgcgaaaat tattgctgca ccttttagtag aacaattaca 120  
gaaagagatc tctccaagaa aatcaggcct agttatttgc agaccccaaa gttttgatca 180  
agaagcacia caaaatgaga cttgtctacc tgccttgaac atttttgctt gagcaaatta 240  
cactcgcac ccttgagggc tagcgcttat tacactcaac ctcaactcct ttttttttat 300  
catatacaag actccattgt atttttacca tccattacac tgtgcccctg tttacgctgg 360  
aatttggtta acaaccgcta gtctaagtta attgcttgcg agatcaacta gtgaatctca 420  
ggagcatgg 429

<210> 29167  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29167  
agcttgactt tggtttagac atgattggta catgatttgg gacttgtagg atttgatttg 60  
ggcaagattg gttgaaggga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120  
tgtgaaattg tgcagcagaa ttttgcacaa gtgcagaaaa atgcttgtgt gtgggtggct 180

gtggaaagtc tagtgcagaa tgagttcttg atgttttcta gtagatccca acggtcacaa 240  
 tgtaggctta tgtactagag acttccagta aaattttcga gtcgatccaa cggttaacga 300  
 attggatcga aggaattggt actggggtct ttaagcgaga aaaagctgtg attntgggtg 360  
 gtgtttgagc acagttttct gcctttgctc tgttttgc 398

<210> 29168  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29168

ggtaagctga aacatatcaa gaaagttttc cccaaaactt tgattataga gaaaataaaa 60  
 aacacaaaaac attaatatag cattgcttct tcttagataa cataaaccaa tgaaaacaac 120  
 ttgctttgct gtcttttga cgggtgtggtt ctttgatta aaaagcttaa ttttatttgt 180  
 ttctttctta cttttgatat atcgtagaaa ccttgtttac ctgcatgcat tggcagttca 240  
 tgtaaatctt ttatttgctt gtaaaaaatt ctgtggtctt tttgtcatcc ccatanggaa 300  
 atggagtgat ggatgggctg tgataagagt tgatattgga taaactatnt ggatacagta 360  
 gtttcagcta tttaatcttg ccgtcatgct gtggcacaat tggatatctag tgcttgtttg 420  
 gatgacttat 430

<210> 29169  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <400> 29169

agcttctcaa ggtgtacgga gactcgacat tgggtgattca ccagcttaga ggggaatggg 60  
 agactagaga ccacaagcta ataccctact aggcctatat caaggaattg gctggtttct 120  
 ttgttgggat ctcttccat cacgttcccc gagaggaaaa tcaaattggg gatgcgcttg 180  
 ctactttagt gtccatgttc cagctgacac tacatggaga cctaccatac attgagttca 240  
 ggtgtcatgg cagaccgca cattgttgct tgggtgaaga agagcaggac agtaagcctt 300  
 ggtattccga tatcaagcgg tacgttgaaa gcaaatagta cccaccggag gcgtttgaca 360  
 acgacaagag gatgttaagg agattggcag atggcttctt cttg 404



<210> 29170  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29170

tntgaaaaac ctcacgacag aacattgaca aaggaatcat ccttttactc taagaaaacc 60  
 acaatctagt cggaaaattg aaatatgggg aaaaaaattt agaaattaga ttttcattta 120  
 attcaactat aaaaattaac tcataaaata agtattaccc cacttatata ttttattttg 180  
 atattagtta atgtaagact ttattttttt caataaaaaac ttatgtaaat ctagggggatg 240  
 atcctctcca ccaaaaaaag taatcttctc tacacacttt ataacattgg attaccaag 300  
 tgcttttctc taatttcttt ctactatctc tatgttacca aaacaaaaaa cataattata 360  
 tttgaacact tttaaatcct aaatacttca ttaaaaaactn taatttcttt ttatcttttt 420  
 ttt 423

<210> 29171  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29171

agcttattct tataattcat gctaaaaggt gcatagaata aaaccaatta ggacactaaa 60  
 gaattaaaca tatagaactt cttaatgacc tcaaaacata gactccgtgg agataatgct 120  
 tctcagtatt ggcggccacg ccaagtgcaa gactgcgagg ttgtgttagg gatgggagcg 180  
 acggcttgaa atatgtgtat atcacctacg tgtcttgtac gacggacatt atacctcact 240  
 catccaaacg agtagtgtat atcacctacg tgctntgtat atacaacatt ctttcatatg 300  
 acacattata ttccaagcta tatattatca gcgagactct cgtaactgac ttagctgcta 360  
 tgtagctctg tgttgacaat aatacgatag catctantac actag 405

<210> 29172  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29172

agaaactcag ctttctttca caatcaatct gtctactaac taacaannnc ttantgcaag 60  
 ttctcattct tgttctttct ttgcctaaca tacacacttg ctcaaactca tgaaaagaaa 120  
 cacaaactca atcacagtca tgcattcaat tcaaaaccaa atcatacacc aattttcaca 180  
 caaagataaa agtgttttat tgccatatca tcaaaatcaa gtcaaactgt tccatatact 240  
 tcagaataag caaaccaact acccataaat aaaactagca gtgtatacaa acataaaaga 300  
 aatactgtac tgaaaccgta atcataataa taataatcca aaaagcaaaa agcatcatca 360  
 ggaatcaaca atgtcaagag tgtataaatt agggaataag tgagagcaac aacttctcca 420  
 gatgacgaat aagaaagatc 440

<210> 29173  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 29173  
 ttgcttatgc atgtctagag agttcttgag agagaaaggt ccaagtttca gagagtttga 60  
 gagattttgt tatgtgaaga tctgcagaga ctagagcttg aagaggaagc cgccctgaga 120  
 gcttgagatg agtttgtag tgaattgtgag gtcttagagg tggaggagac atccccacta 180  
 cttgtatttc tgtaatgttt tatctttctc ttgtctttgt tgtaaaggaa gcttcccagt 240  
 tatggaaagc taaatcctct gttggatttt ccttgtaggt acttgatgta aatatctttt 300  
 tatctatcta atgatgtttt gtgtgttctc tatgctatca gtatttcatt atagtatgct 360  
 ttaccttga tcacgtagat gcatgc 386

<210> 29174  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29174

actaagctta ggctgctcga ttgctccagg ttgctgcatg gattgggtata tgtctgtatg 60  
 gnggtcagca gaggagcaca aaccacaaac ccttgcaaca ggtatagatt tctgattcaa 120

ggccagctgg gttaccaagt taaccaatgc atccagtttg ccttcaagct tcttagtctc 180  
 agatgatgca gctgagtttg tagctacctc atgcactcct ctaatgacta tggcattatt 240  
 tctggcgcta aactgctgag agttggaagc catcttctca attaaatttc tggcttcagc 300  
 aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt 360  
 actgagtcct tcataaaaaat attggagaag aagctgctct gaaatctgat ggtgagggca 420  
 actggcacat ag 432

<210> 29175  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 29175

tagcttgcac tgtgctaagc ctaaagaact ccctgttttg aaatattttg tatttgggct 60  
 aagcgcgcaa gggcagctgg ctaagcttgc atgtcgcgtt aaacctaata acatctttgt 120  
 tttgtaatat ctcaaatggg gctaagcgtg caggcacagg ctaagcgagt catgcattcc 180  
 cggtaaagcct gtggtgctcg ctaagcggat tttgcaggaa atttcctcct gcaaaaactct 240  
 ctaagcccta tgtggcatgc taagcccaat aatatctctg aagttgcaat ttcatttttg 300  
 ggcttagcgc acaagtttgg gcttagtgcg caaaaaaaaa aatcaaaaatt tcttgtactt 360  
 ctatttttgg atgtctccta cgcagcaagc ttagtgcgca ctta 404

<210> 29176  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29176

tataagaaca aaattgccgt aatcatttcc aaatangctt gngatttagg acgcatcaac 60  
 aagaatcaag ccgaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 taatgatgga tggctcaaatt tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag agaagaatta aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300

caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360  
aacaacatta acaaattaac acaactaaca aattaacaaa gccaacataa ctatcaaaac 420  
caaa 424

<210> 29177  
<211> 398  
<212> DNA  
<213> Glycine max  
<400> 29177

agctttatca tcgtcacctt ttaaacattg ttgtgcaatc tttcaacata accatgcaag 60  
cagctgcata cctatgcaac ttgtctaata tgaaaaata attgggatta attcatccct 120  
ttcgcaactg ttaaattgat gttatgagtc atgacaagat tctagtcagc atcctttctca 180  
gagtttagtg ttctgtcttt tcaaaagagg ttttctttct ctcttttctt ttttttgtgg 240  
attcgtgaat tttttgttat tgatttttta tgtttactta ttgttatgaa ttaccaaatt 300  
cgtaactaat gttatgatgg gtcctatata tctcgatttc gttgtgtatc tagtttaaatt 360  
atataatgga atcatgattc tattaggagt gaatacac 398

<210> 29178  
<211> 390  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29178

ntgagccaaa atcctgactc accataaacc ttgtctcagt gngttatgtc aatccttacc 60  
ctcggaagca aaaaaaaaaa gaagaaaagg aaaatttcca atcaaaggaa aaaatagagg 120  
aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa 180  
tcaaagaatg ggagaaagaa aaaaagagaa aaggagaaga aggaaagaaa gctcctgac 240  
aaggatcgaa agaaaacaga agaaatgtgc agagaggtct ttggaccaga caatatctga 300  
acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaaccata acctannagt 360  
ggtctttctta ccaaccaaaa tctgtgctgt 390

<210> 29179  
<211> 393

<212> DNA  
<213> Glycine max

<400> 29179

atctttagtc accacttcac cctaccttgc cttttgagag cggcaacaac atccatcgtg 60  
gtacctgtct tccatttaac atgctcagtg taagtaacaa agtaccgcag accatccctg 120  
agaaagttct taaagactct acgagccaaa caacgaatcc cgagtttctg aatgttctgc 180  
atgttgctgc acaacaccac cttgtgcccc ttggctcctc ccctgcatcc ctcccatgac 240  
caccgtatcg gccgctgtca cctccaccac caccaccgaa gccatgcct ccaccaccac 300  
cacggccaat gcgggtttgc acttcatggg tagtgatgtt tggccatcaa ggtcttcgcc 360  
gtgcaaactg ctgttcacaa ctctcgctcc etc 393

<210> 29180  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 29180

tattccaggg acatgttatt attatgcaaa gccttcgttg gtagctcctc caggggccat 60  
tctgtcagta gagcagttcc ttgagcaggt ggccctgcct agagctcaac ccttgattat 120  
gagaactggg ggaaggtttg cagcccaggg acctcaacaa gagagatcca acgaggctac 180  
tgctcctcct gagcctacac ctgcacaggt tgaaccaatg ctagctgac caccattctc 240  
aatggcaaat ccatcttctc ccaaacttga agtagctccc tcatcttcac ctattattat 300  
catctctgaa gactctacaa agtcacgctc tggagaagat gttactctct ctgattcccc 360  
tattttccat ctaataaatg aggaggatgc tcagactcgg gatacccagg atctgt 416

<210> 29181  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 29181

agctttcatc tagccaagtt tatacaaagg tgttacaaga gaacctaacg attcctaatt 60  
atatgggcca tcaaattctat catgtgctga cagtaattga ttagcccatg aatctcctcg 120  
ggggcagtac acacttcggc catggctttt gctttggcta acagacggg gaggtcttga 180

cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaacgca 240  
tcaatcacc cccctcttgc ttcttttttcg gcatacactt gtgcaaaatc ctccactagc 300  
ttttgttcat gggccatgga ctgggttcaat tcttccttgc attgccctat gatagctagc 360  
atgcttt 367

<210> 29182  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29182

tcaacatcag accacttcca ggggtgctggt tcttttactt ggatttgatg gggcctatgc 60  
aagttgaaag ccttggagga aagaggatg cctatgttgc tgtggatgat ttctccagat 120  
ttacctgngt aaactttatc agagagaaat cagaaacctt tgaagtattc aaagagttga 180  
gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt gaccatggca 240  
gagaatttga aaacagcagg ttactgaat tctgcacatc tgaaggcatc actcatgagt 300  
tctctgcgc cattacacca caacagaatg ggatagttga gaggaacaaac aggaccttgc 360  
aagaggctgc tcgggtcatg cttcatgcc aagaacttcc ctataatctc tgggctgaag 420

<210> 29183  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 29183

ttctttccaa ccaaattcct gatagaggcc catttaatac ctataaccag ccctctaag 60  
ttataggata agatattcat gtatgagctt tcttattacc caactccata gcttcctttt 120  
tgtctctgga ttccatatta gcatagtgtt gaatacaatc agaagtgtct gtttcagcct 180  
ccatgcctat tctttttccc aaattctata gttgatgagc ctctccatc acctctgtgt 240  
tacatataat cttacttttt aaccttctct ctgcttcaag atggctctag ttatgggcct 300  
tgtcacattt atcaatagcg gcagccaagt cattatcttc ttcttgtagc tgaagttgat 360  
cttccacagg ttgcaacata cggagtttat a 391

<210> 29184  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29184  
  
 tcaagttgct aggatagcaa cgtgancggt ccttcagttc gtcttgagat gaaagctcca 60  
 acaggcttct tttggttggg atgtgtgctc tatctcgcaa gattgcatgg tcaactagcag 120  
 tcatattctc aatcaattcc atggcttctt caggggtctt caattttatt tttccccctg 180  
 tagaagcatc taaaagttgc taggattgtg gccttaaccc gtcaatgaaa atatggagct 240  
 ggattggctt tgaaaatcca tgagtaggcg tctttcttag taaccacga aatctttcca 300  
 aagcctcact caaggactcg tctàgaaatt gatgaaagga tgagatgaca gctcttcctt 360  
 cagcagtctt ggactctggg aagtatntct tcaagaaatt ttcaaccact tcat 414

<210> 29185  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29185  
  
 agcttttccc ttcgtagcat atagataaat gatgtttata tacttgttaa attaggtata 60  
 tgtatccgcg ggtaagagat atataggaaa aataaaagaa aaaaaaatag attatgtgaa 120  
 aataagacat taaattaaaa tactatgcaa atataattat aattgttaat agttatgact 180  
 ttttaaactc cctaaactac agggatatcc ataactttaa ttagttggta atcgacaccc 240  
 atatcggtta ttaactattg tcttgtttat cataattaga caatgacttg acatcatcat 300  
 aaataaagag aaaactagag ccaagatttg ggaggacac aactgatctt gacatttcat 360  
 gatgcagatc aaatcatatg gaaggggcac atgacgtcaa taagcaat 408

<210> 29186  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29186

tgtgacanat ctcttgagaa aataaatatg ctcaatnntt tgttcttttt gaatncaana 60  
gcaaaccaaa tgcaccttct ctaactcctt gatcataaag atctacttca gaagtgtccc 120  
cttttggatc accatgataa acttctctgc ccatccaate cgtatcaaac agaaagaagg 180  
gaaaccatga caactgcagg tagacaggat tgaaatgaac ataagaagga tttcaaatgg 240  
gaagcaccaa cactaggcta atagcattca caacacaacc gacttgaaaa cacaaatatt 300  
aacagaaaacc tttgcaaata aatactagta catacccaag tgagagccat tacaaccagg 360  
acagaatgca tagcaggtgg caaatgcctt aaacttgtca acaagtttac caatactgct 420  
ccaggcccat 430

<210> 29187  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 29187  
agcttctaga gttaactaca tgaagttgcc tcggtaaaaa cgatgtcccag ccttcgttaa 60  
cagttggatc ttctcgaaat ttggtttgca acttcacaag acaattgtcc atgatctgac 120  
cgttgggatc tttgagaaga tgtctggagt gtgctagaag cttccgtttc cgagagcatc 180  
tcttatttaa gcatctcagc ctttgctttc gtgtagctta ggaaaaacgt ctttcttctt 240  
tctttctttc ttccaaagcc atttctaaag tcccaaacac tttctccatc acccatagcc 300  
aacattagcc accacaaacc atcgttggtc tcatttgaaa cccacaccg agaggaaccc 360  
ttcaaccgaa gcggaatctt ccaacttggc ttgcggtttc agtagag 407

<210> 29188  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29188

ggtagagtta agtctcgtac tggtttaate tattacgggtt tattttntat tcgatnacat 60  
tgnnggntga gacaatgatt gattttttca agagtctcta ctttaattga ttaccaagta 120  
gattaatcga ttacttctct cttgtttaag ttgctcagaa gtgaacaaga acattttaat 180  
cgattacctg ggcatctaa tcaattacat tgttcttgag tggttttcca gatgttggac 240



ggacacttta attgattact tcattgaaat atttgattac tttatagatt ntatcgattg 300  
 caagcgggta taactatddd ctctataaat aaccagcttg tgttcacatc tatacatcat 360  
 gagatcatta gtgaacactc aatacatctc aaaaattact tcttagtctt agaatga 417

<210> 29189  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 29189

agcttgcttc atatatgtcc aggaaggaca aggcggccga aggaactagt tccgctcctg 60  
 agtatgacag tcaccgcttt aggagcgtg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcatt tctctgggag caacgcgtcc agctcaggga tgacgagtat actgatttcc 180  
 aggaggagat aggtcgccgg cgggtgggcat cactgggtac ccccatggcc aagttcgatc 240  
 cagaagtagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgaggtcctg tgtgaggggt cagtggatcc cgttcgatgc agatgctatt ggccagctcc 360  
 tgggatatcc gttagtgtg gaagagggcc aggagtgtga gtat 404

<210> 29190  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29190

cgcttccttg attccttttg ttcttcttta ctnccttttt ctcttngttt tctgcagctn 60  
 gnaacttcta ggtaagtnta ttttaattga taatacatc tatgcatgtt taggttataa 120  
 attttaagtg ttatgtgtta agtatgttta cgttaggctc gttttgtatg ttaatgttat 180  
 gtatgttttag gtggtattta taaattttta gttgcaattc gaaatattaa tattatttat 240  
 attatatgta tatgttataa ttttagtcag tatgttcgta tttatattat aggatacatt 300  
 acagctagtt tatttggtta tattattagt ttgagttttg tattttatat agtagattag 360  
 attcacctaa aagattatga atagcttaaa tttttatatg cgacatta 408

<210> 29191

<211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29191

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agctttgtta tgtcctctcc cctcggcggg gatttcttct tcggcaaagg cgagatagtt 60
gttggcagtg atattattga ccagccctcc gaaaccttct accgagatgt cttggggccac 120
atgggcctcg ttcaaaacct tcactagtag agcccgatga ggctcggagc tcatgagtaa 180
ctccaacagc gagaccctgg ccgggggtttt gttgtgctgt tcgataacct tgaattcgct 240
ctgctgaatt atacggagga actcactggc ttctcttagt gacacctcct ttttaccatc 300
ctttttctcc ggaagacctt tcgctgaat atctttattc gaagtgaggg gtgcttcgtc 360
atcttgttcc tccaccactt ttgctttccn cttgacgt 398
```

<210> 29192  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29192

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ctgatcaaat gactaaaatt aattggcaaa aaagatatnn atcngattgc caaaccaact 60
tcactattcc tagttagaaa ttccaatatt ctatattacc tgctcattag ctgtaggagg 120
aaggcctcca acatacacc gcctagcatg tcatgtagcc tgtaaattca gtacatcaaa 180
gataggccat aatcagggaa agtcatgcta aacttaaaat gaaacttaaa taagactgta 240
gtcagtctca gcaagcctcc atactcggaa agactaaact taaaatgttg tgttgacaaa 300
gttagtgtgt ttctactctt tttctataat gactcttttt cttctcaatg aaagagaata 360
ttttctccca gcagcacagt gatactaaac aaacaaaagc gcaataaana gaaacacatg 420
taaaaagaa 429
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<210> 29193  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 29193

agtcttttag aaaaatggcc ttagcaaact tcttatttcc agaaggaaat tcaatcaata 60  
 gacctccaat ctttaatgga gaggggtacc actactggaa aaccggaatg aaaattttta 120  
 ttgaggcaat agacttaaata atttgggaag ccatagaaat agggccttat ataccaccca 180  
 cagtagaaaag aatcacaata gatgggagca caacaagtga aagcataaca atagaaaaac 240  
 ctagagatag atggtctgaa gaggatggaa gacgagtaca atacaattta aaagccaaaa 300  
 acataattac atctccctgt ggaacggatg aatatttcag ggtttcaaata tgtaagagtg 360  
 ctaaggaaat gtgggacact ctacaattaa cacatg 396

<210> 29194  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29194

tagaagagcg tcgaggagaa ggctttngta gtttgatatac atcttaagaa aatcttcgag 60  
 ctgtactagg catgatcgta agaaaatata aaatttttaa attgttttta gttttcgtaa 120  
 cttaacgttt tttcattttt tggttctgta atttttttt ctaattttta tccttatata 180  
 ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240  
 tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300  
 atttgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360  
 aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaaaca 410

<210> 29195  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 29195

ttgcttctta gtttcagatg atgcagatga gtttgtagct acctcatgca ctctctaat 60  
 gactatagca tcatatttgg cgctaaactg ttgggagttg gaagccatct tctcaattaa 120  
 atacctggct tcagcagggg tcatgtctcc aagggtcca cactggcag catctatcat 180  
 acttctctcc atgttattga gtccttcata aaaatattgg agaagaagct gtcacaaat 240  
 ctgggtggtga aggcaactgg tgcataattt tttaaatctc tcccaatatt catataggct 300

ttctccactg agttgcctaa tgcctaaaat atcctttctg atggccgcgg tccta 355

<210> 29196  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29196

aatactcagc ttacggaaca cctagcttgg atttcttcac tggtactagg tgttcactca 60  
 aaacagctga aatgcatagc ataggggtca aggacccttt ggaatagccc acttccccta 120  
 tttataggag aaagggggaa gaggttgctg ccagctcgc ccaagcgagc aggtggcttc 180  
 ctttggaagt ttctgatgc acccccaaat tcataagttc cccccctttt tcgtatttta 240  
 tggaaaagtt aaggaagtat tacggaagcc tatcagactt gattntattc tttttgtcc 300  
 ttcctctcac caatcttaag tggaaaaggc ttaccaggg ttacggaaat tttacggaag 360  
 cattacgaaa gcctcggagg tccattttca gaaaaagcag ggaggtgctt g 411

<210> 29197  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 29197

tgcttatatc ctcaggtagt tcagcaaata cttgcttcat ttctccaag ctcatatttt 60  
 ccaaaatgga cggccttggg gcaaccctca caatctcgcc gcctttaggt tccttaactc 120  
 gagectcggc tttaatgatt agttctgaat ttgagcttgc tccacattta attataaatg 180  
 gtgaggtatt acccgtattg aattgaagga cggtccactg tgccacatca gttccagatc 240  
 cagagcctgt atccgttgat ggcttgcgag aatgtgatag attctgaatg cggtcacctt 300  
 cttcaggaat tgactgcac ataaaagagg gattaggaat cccaaaactc aattaaggtc 360  
 acgctcagac acagattcag atgccagaaa tgctgagaca gga 403

<210> 29198  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 29198

tcttcatgag tatttataag ataagaaaat aagatgtata tttatTTTTc aatattaaac 60  
tttcttacta aaattaaccc ttactttta gagaagttaa ataaataaat aaataaatct 120  
ataaaagtta agggcattag ttgattttac tttataaaaa ttttaatttat ttttaatttct 180  
cattttcttc tcctacaagt agctaagtat ttctcctagc tagctaaata gtatgatttt 240  
tcctttatTTt atttgtaatg tctgtgatat gttgcaagtt tcatgactaa tcctgataaa 300  
attcgaaaaa gccactagcc aagagatatc aagaatgatac atatgttgag tcctgcacat 360  
aatgtttgaa cggacaggca aaagt 385

<210> 29199

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29199

tatgctttac ctgtcaggct aagcgccaat atgcttctat tttttagtcc tttgaataag 60  
gctaagcgta gctgttgccg taagcccttg ttatgtgtta aggagggttg gctaagcgtg 120  
ccttgctgca ctaagctctg ttggatcaag tggcctcgga ataattaaga aggggggggtt 180  
gaattaatta ttaacgaacc ttactaatt aaaaatctat cctttctaat gttaccaaaa 240  
gtaaaagcaa taataaactg cacaacaaaa attaaagagt gtagggaaga agaagacaaa 300  
cataagagtt ntatactggt tcggcaacaa cccgtgccta catccagtcc ccaagcgacc 360  
tgcggtcctt gagattcttt tcaaccttgt aaagtccttt ac 402

<210> 29200

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29200

gaggattatg gggtaacccat cacatgtggn actttgttgc ggtcgagcga ngngncacaa 60  
caagntttcc acatgcacaa agcgcgcata aaccacccat tccctgggtgc ccaccttcaa 120  
ctgagctcac gtactccac gtagcccata tcctcttttc tctcaacacc ggggtcccat 180

caatccttcc aagcgtttcc aacatcaaag cgaaacaaca ttcaaacagc acaagctatc 240  
acagccaagc caaacagagc aaaggcggaa aactctgtca aaacaccaac caaaaacaca 300

<210> 29201  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 29201  
tttcttttca tatgatggcc ctgacaacca tgttggcatc aacataaaca gcatcaattc 60  
cattcaacag gatccattaa tcaacactgg ggtcaatgct acatcacgta taaatgtaac 120  
attcaaaatt cagtatatga atgacatgat aacggatttt ggttccatga ctgggttttg 180  
agaatctatg acgacccttt tggatatctc acgctcttaa tctatctaac tatcttcaag 240  
aaggggtata ccttggatac tcatcgttta caactatcta cactgagctg aaccgtgcta 300  
gatcatggg 309

<210> 29202  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29202

agtatcccat tattgtatac aattaatncc agcattttgt ctcttatctt ttggncacaa 60  
agagaaggga ggatttctaa actttgttgc attacgttat atatataagt gcctacactt 120  
gtcttttagtt atattagata tattaatata tgattagtta ttattgttat caattattatt 180  
attattatta tatatatata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tcgctcttat atacaaacat tttgtgtgat cacatacgag gtacgcgtaa 300  
aaatatttat gaaggaattg gaaatatcta tctatgggtga gggagacgcg tggattattt 360  
ttctcatatg ggggagacct attcgctcc gtgtgcgcgt gggcgactc ccgttatata 420  
gct 423

<210> 29203  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 29203

tgcttataaa gaaaaatgat ggcatgattt taacctaatc acactatatt gaaagctatt 60  
 gaagaagttt aattattttg atgtgaaaca tgtgtctact tcttatgact catccatcaa 120  
 gttaaagaaa aatttgagta aaggaatttc ttacataaaa tactctcaaa ttattgattc 180  
 tttgttgcac ttgacaaact tctataggcc tgacattgca tatgtagttg gtagattaga 240  
 aagggtatact aataattctg atcattctca ttggattaca ttagaaagag tttttagata 300  
 cttaaagga atcattaatt atggcattca ttatacatgt tttcctgcag taattgaagg 360  
 gtttagcgat gcanattgga tttctaattc tgatg 395

<210> 29204  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29204

tgtagaagtg attgtgaata gtggggattg ttttttattt gtttgctttt ttgnttattt 60  
 gtttgtttgt tataacttgt attagctagc ctaaaattgc tcaaccagac gaatgtatga 120  
 ggtgcttaaa ttaagggttaa caattgcaaa tgttgtgaca cacaattcct gttgggcaaa 180  
 gtgtcaagat tacacaaaaa tggctggctc gttctgatgt aattgtaaag catataagag 240  
 catgctatgg gttagttata taaccaatga agtaaaatag caaacacgta gaagttggaa 300  
 gtttgggtcaa agaataaac aatccggcaa ttattctatg caattgaata tacaacaag 360  
 taagacaaga gttatacttt caactctatg tcatgcatgc ttgatgcttc 410

<210> 29205  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 29205

tatcttttat agatcaacaa tgagctgtcc gaaagacggc catcccggt cctctttact 60  
 gctctccagg attggcatgt gcttctcatt gcttgctaac cctttgaact gtttttgtga 120  
 tggttgctgc tgcatttgtg cagtgttaatt agccaatcag caagggtat gtactttctt 180

aaaatgaaca gcatacacata acaattaata tatacatacc aaagcccaaa gaaaaataag 240  
 attttacagc caaaggatga aatttacggt ctgtctgttt tgagaaaatg ttctttgttt 300  
 ccatttcctc ttttcacata taatttcaag gatgtacat tctttcactc cgtttccgat 360  
 tttacagatc tatatcagtg atatgataaa gacaacatg 399

<210> 29206  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 29206

tgccagaagt tcttagttgg ggatgctggt tctgtttggt actaagatga tgaggaggcg 60  
 gaggatgaag atgagctggt agataatgat tctgaagaat ctgaggagta taagttcttt 120  
 gaaaaagtgt ttgcagaaga tggtagcctt aggagatatt atgagaacaa tcacaaggaa 180  
 ggagattttt attgtttggt ttgtgggggt attgggaaga aggtatggaa gaggtttaag 240  
 gattgtattg gactaattca gactccact gccatattaa ggacaagaag gaagcgagct 300  
 cacagagcct atgcacaagt catctgcaa gttgtagggt gggatatcga tcaaatgcca 360  
 gctattgtgt taaaggattt ggattcctca ttggctggtt caaagaagct tttcgtga 418

<210> 29207  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29207

ttgtcattct ttcagagaga tggtaggacaa actactcaag gctcagttta tcagagaagt 60  
 caggtagctt acctagatag ccaatgttgt catggtcaaa aaagccattg gcaaacggcg 120  
 tatgtgcatt gactacacca acctcaacaa agtgtgcacc aaggacacat atgctttgcc 180  
 cagcatcgac aggctactcg actacgtgcc tgtgttccaa gtactgagtt ttcttgatgt 240  
 ctatttagga tacaacacaa tcagaatgca cccccagac aagagaacac aacattctta 300  
 actgaagatg ataatttttg ctgtagggtc atgccctttg gctgatctt canacaacag 360  
 atagaccata atcttgaggt ttatgtgaat gatatg 396



<210> 29208  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29208

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 gcagaggagc acaaaccaca gacccttgcg acaggtacag atntctgggt caaggccagt 120  
 tgggttacca agttaaccaa tgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180  
 gcagctgagt ttgtagctac cttatgcact cctctaata ga ctatagcatc atttatggcg 240  
 ctaaactgct gggagttgga agccatcttc tcaattaaat ttctggcttc agcaagagtc 300  
 atgtctccaa gggctccacc actagcagca tctatcatac ttctctccat attactgagt 360  
 cttcataaaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaact 416

<210> 29209  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29209

agctttaga ggatgcttca acggaggaaa agaaagaggg agagaaagag agagggggga 60  
 gcacgaaatt gaaggaagaa aaaaggagag aagttgaact ttgtgttggt tctcacaga 120  
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180  
 ttccttgaga agctttctta agaaaacttc cttgagaagc tttcttaaga aaacttcctt 240  
 gagaagcttc tttgagaaaa cttccttgag aagctagagt ttagctacac acacccatct 300  
 aaaaactaag ctcacctcct tgagaagctt cttgagaag ctagagctta gctacacacc 360  
 cctataatag ctaagctcac ccncatgac 389

<210> 29210  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 29210

agctttctca atatttaaac aattcgatct catttatcat gaaactaccc taaaccaaga 60  
aaacagagta gaggcagaaa actctgccc aactaatcc aaataccaca gttttcccta 120  
ctcaaatacc ccagtaaaat tctcttcggt ccggttcggt aaccattgga tcgccttgaa 180  
aattttactg gaggtttctg gtacataaat ctacattttg accgttgga tctgctaaaa 240  
catgcctgga acccgagatg tactactctt cccatgacta gcaatgcaca accatttttc 300  
tgcactatgt taaaaaaact gctggcaca tttgacaaca t 341

<210> 29211  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 29211

gcttatgttg caaacattta taatagacct cctcaccagc aaaaccaaca acaacagaat 60  
aattatgacc tttcaagcaa tagatacaat tcagggttga ggaatcatcc aaatctgaga 120  
tggacaagtc ctccacaaca acaacaacag cctgtccctc cttttcagaa tgctgctggt 180  
ccaagcaagc catatattcc tctccaatg cagcaacaac agtagtagtc acaacaaaaa 240  
gcaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300  
tgaaattctg atactgagga cagatgtcgt acaggatgtc acgacatcgc gcttcagaac 360  
atgcagaatg tatatgacag tatgaacaga ttaaacaagt aaataacaca agagaattgt 420  
aaccagttc ggtgaacgtc cctacatctg 450

<210> 29212  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 29212

agcttgact taactttgct tgcataattct gtgtaactct ggccaaaagt ctcaaccatc 60  
aaatcctctt cttctctgc cttctgctta taatacaaca agcatactgc cacaataaat 120  
agcagactca gaggtgctcg aagcgcaatg cagtatgta caaacaaaag cattgttgat 180  
gaatatattg gatgacggac ccaacgataa ggtccaaatt gcactacaga agttggctcc 240  
accacatttt ctgaatactt agcgagatac aatgtagcat tatactgcat tagcagagtt 300

gtaatgatta aagcccagat tccaagattg ctccaccac cgggtatgag gtgaagctca 360  
ggcccttcaa atgctgcaag ccaatggcca accatgactc ctgtgctg 408

<210> 29213  
<211> 464  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29213

gcttaatggc ttctcgacat anactattaa aacgtacagt gagaatTTTT atgtcaattg 60  
tatctgttat nttttcatca gttccaatat cagattttgc attccttgtc catcgtttca 120  
aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180  
aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240  
tatttaaatgt gaccatgtat gccttggtgat catgtacata ttttgcaacc ctgtatttac 300  
tgatcacacc atcatcctca acattatttg cagtataagc aaaagtttcc accagttcct 360  
cctgagattc tgcaaaaatc ttcttagtgt acatatttgc tgcttggtgt tccattgggtg 420  
atggagtctt cagtacaggt gtgttacaaa tagtctcata atct 464

<210> 29214  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<400> 29214

agcttttcta tggattgact agcatatata ttcattgaga agaaacgaga gagaattcaa 60  
gagaaatact actgagtgaa acacaatgct tattgagtct attccttgct tagcaaagat 120  
tttgttccga gtcttacatc attgtaaaca cattccttga gtgttaagat ctgtaattct 180  
ttgaactggg ggtttatgaa aattaggagt gtcgtagtaa caaaacaata tttgggtggt 240  
cttaaattca gggggaatct aagaattagg ctaatgggtg cctagagagt acttgtaaaa 300  
tcaagaatgt cagattaaaa tactagttag aatattaatt aatagaaccc ttacaattt 360  
gagtgaacta gtataaatta agtgtttcta ctattctcct taag 404

<210> 29215  
<211> 341

<212> DNA  
 <213> Glycine max  
 <400> 29215

ctctcttaca gcttataagc actccacttg ctacataact ctcggttgaa aaaaacataa 60  
 gggccaactt ggttaatctc ttgcgcaggc accagcttca agctttccaa cacaacaaca 120  
 gtggcggctc aaacagcaag aacggctctc aagactctct tctacttgca tttgctccta 180  
 gttgcagcct tgggtgacttt ccttaccata tatggacctg tctctgattc tcacaccac 240  
 ccattccacc ccatgaaatg gtaccctcca cttcttgcac caacagcatg tgctggaatt 300  
 gttggtctca catggcaatg gatcactgag agccactcca c 341

<210> 29216  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29216

agcttttagac atctttatctt gatttctttg ttcactctgag tattttttgtg tagcttcatc 60  
 aaggtaaagg ggggtctttcc acttttttgaa ccctgatctt attatctttg gaagctagac 120  
 ttcattgcat gttgtgttga tgttccaaat tcgtagctac tgccttggtt ggatctaagt 180  
 gatatgaggt tttttattga aatttttaagg ttaaaaatgt gttcattgag tgtcaaaact 240  
 tatgggttagc cttaaaattc acctggatca aagttttcta gcaaaaagtt tgaacaaaac 300  
 aagtttaagg atatttttat aagattaaat ctgtcacaaa attaactggt ttaatgggtg 360  
 tatcattatt tttcttaaag atttgactnt aaatatgagt ttgata 406

<210> 29217  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29217

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 acacacttag attttctaataaagttttcca acaaaaatct aattgattac taaatgtagt 120  
 aatggattat ctcgagccat aaagtcttca ttctactgaa acatacatat gtaatcaatt 180

attgaaactg gcaattgatt aattcggcta ttcttgccac atttcaagta gaagggagct 240  
atgctgctta ttctaact ntgtaattga gtattaaact ctgtaatcga ctacattata 300  
ttgaactcac tgcttctaag aaactttgag atcaattcat taatctcca tgtttgattt 360  
ctactaagca tggatataag aaaactaaga ctaaatac ccatcatgcct agtctaagaa 420  
catnccatac aaacaccaca tcttttaaaa cttggctgac attgtaaaa 469

<210> 29218  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29218

agctagtcca ctgatactcg ggatccttag aggaccgccg tttcagcttt tgaaagacag 60  
cgaaaccgct cagaggagca tgattgccct gacttcatac aaaaagcagc tgatctggcc 120  
gtgacttcaa catgctacac aactatgtca tcattgcact cccatgccac tccaccatcg 180  
tgacgagcga tattgatata acatacgtct gggtcataac gaaaggcttt tattacaaaa 240  
aaatacattc ccctacttan ggatgggctt 270

<210> 29219  
<211> 288  
<212> DNA  
<213> Glycine max  
<400> 29219

cgtattcaag cttgtcaccc atttcgccca ggcgagcaag gatgcttcct ccagaaacaa 60  
cagccttctg aaggaatctt ctggacggcc cacgtgggcc tggacgctat ttgcaccctc 120  
ctttatacta aatgcacccc cttctatctt tttgtaattc tttatccgat acgctacgaa 180  
actttacgaa ttgcatagcg atacttatct tacttccgca ccgttacgaa tccttacgga 240  
atatgtatat actcttatgt acctctctaa cgatgtacag aaactcac 288

<210> 29220  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 29220

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 ttaaattgaca taaatcataa aataacttan aataaactaa agtggttcaaa atgcaaaaat 120  
 ttaaactgtct tgctcctcct gtggctgggtc tttattaaga tccagtgtctg gagctgtctga 180  
 tgaatcctgg ataagctgct ctggctccgc aactgggtgta gatggctang tctcctcang 240  
 agcatgtgca gaggatggct ggggtctcctc aagagcaggt gcagaggatg gctccggtat 300  
 ctgatctgtg ggggtaccct tcttctgagg catgtgtgta tatgcatcaa aataaaaggg 360  
 ctggggaggg atgagctca 379

<210> 29221  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29221

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 tcacaagttc ttcaagggaa ggttgcgaa gagcctcaac tggttgctgt tctgggggtc 120  
 gttgctgttg ttgttgctgg attgggtggag gaatgtatgg tctgcttggg gcaatagcat 180  
 ttgaaaata agattgttgt tgctgctgtt tgggatgatt cctccaccog agattgtacc 240  
 tggttggtgga gaggtcataa ttgttctgtt gtggctgatt ttgctgctga ggttgaggag 300  
 gtctattgta gatgtttgca gcataagctt caagctgttc aattgcttca gattgttgca 360  
 cagaagggca aaggtctgtg tgggtggtctg c 391

<210> 29222  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29222

tctaaactnt gtacaagaat gaagctctga taccacttgt ctctgttatc ttaagaaggg 60  
 gggggggggtt gaattaagat attccaaact gtttccccta attaaaaatc tatttcactt 120  
 tttactcaag ttatgaattc ccaatgacaa tcttcttaaa tattaattca aatgaaacaa 180

tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag aaaatgcaaa 240  
ctcagtttta tactgattcg gccacacct tgtgcctacg tccagtcccc aagcaacccg 300  
cttgagagtt ccactatctt gtaaattcct tttacaattt ctaaacacac aaggacaatc 360  
cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta atcccttana 420  
gaatgagaag aagaagaaga acaaatctc 449

<210> 29223  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29223

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agaatcttct ttagtgatgt gatagttctg gaaactaatg gaggaaagca tcaatagagg 120  
ggaatatcaa cctaatttgg ctaaacagtc ttctttgaga ttaggtggca gttttaaatc 180  
aacattgtct ggaagatcaa atcctcgaaa ttccccttca ttccggcggc ttaattctgt 240  
gcgaacgcca agaaaagaag gaaggatcag cgtaggcggg gcaactgtggg ttccggagcaa 300  
tcatttactt ttgtggctgc ttctaatac cctctgggct tatcttggat cttntgttca 360  
gtccagggtg gtcatagtg ataagaagga agaatttct 399

<210> 29224  
<211> 459  
<212> DNA  
<213> Glycine max

<400> 29224

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aaaaaaaaatt aagaatatca cctttttgcg cttcttattt agcaccttcc aaaagacatg 120  
cacatccaag atatataatt ttcataataa ttaatgtatt tttcaagcat tcgttcatat 180  
catgttccgt gtctttatgt attttgtttt tagtactttt agcatgtcgt gttgtgccta 240  
actccaattt gagaatataa caaacagtac ttttaacctt tatgctgcag gatgatcaac 300  
ttgcactcca caatccacac ctaagtttag tactgtagtt aattaatgaa tgcagcacta 360

taaatgcacc catcagcaag taaaaactaa ttaaattaaa cttaagatag taaaataaca 420  
aagtcttatc tcactaaata aagtaagtgt tgatgcctc 459

<210> 29225  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29225

agctttttac actgacaatt atagaaaaat tatgcttctg ggtaggtaa aactacatgt 60  
aaaagttaat aagaagtcag cctgtagcgt caatgaatta gtttcatgta atgcatataa 120  
ttacataaaa ttaaaataaa acataaatct tagcagttgt ctcaaactga tggatttttg 180  
ttttgttcat gacatggctc gtaacaaagc tagatgaaat catgaagcca acaaatgagc 240  
ttcacttata accagaactt aatggcaagg gcatttgaaa taggacagaa ccaggcaaatt 300  
acaaaacgtg taatgggaac ttagtgagta ctacttgtag ctaacatttt ttatatatat 360  
taataggatn tttcttatgc agctntaaac acttaatta 399

<210> 29226  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29226

ttcttctct agcttcccaa ggaagctacc ttccttgctt ctcatgaag attcccatgt 60  
gctaggctat aaatagaaac atgtgtaaca cttgtcataa ctttaatgaa tgagaaacac 120  
gtgagacaca cttcaaagtt caacttctct ccctaattct cttcaattcc catccccctc 180  
tctctctctc attctcttcc tccattgaag cttcctttct aagcttctta tccaaggcat 240  
tctcttggtg gtgaatgatg caatcctacc cccccaaggg cattgtatag aggactccaa 300  
gaagattgag ctagagatac aagagaaggc cataagggtc tcatgagcct tanggtagac 360  
ttcggggcca tgggctacgt atgagtcac ttatctttat acatattaga ttaagggttc 420  
atta 424

<210> 29227



<211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29227

atttangatt atggggaacc cgtcacatgt gtgactacgt gacggcctgg cgatggtgca 60  
 agtcgactat ccacatgcgc gaatcacgca tgaattcacc atccccagat gccaaccttc 120  
 aactgaactc acgtactcct acgtagccct tatcctctat actctcaaca ccgggtcccc 180  
 ataaatccat tcaagcttcc ataacattcg agcaatatcg aaatccagac atcatgaact 240  
 atcagagcca agcaagacac ggcataggca gaatactctg accaaaacac agaccgatac 300  
 cacagctttt cttagtcata gacccagtg acattctctt cattccaata cggtcgacgc 360  
 tggatcgact cagaaattat actggaagtc n 391

<210> 29228  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29228

tcttatccaa ggctcatctc ggtggtgaag ctcttcttc catgtcttat tccatagtgg 60  
 atggcgccctn ctctcacctc ttctnctttg tcttccactg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ccacaagcaa 180  
 acttccatca tattctctcca ccggggattg tatctattgc tggagaggtc ataattgttc 240  
 tgggtggtgga ttttctgtct gagtttgagg aggtctattg tagatgtttg cagcataagc 300  
 tt 302

<210> 29229  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29229

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 aagggatgcc ccacattatt tccatgacac aaatgcaaaa atgatgattt ggaaacttta 120

tgcaaaactg gtcttgcacg cacctatgtg gacactcaag tgtcaaattt ttatgggtcat 180  
 gtgatgctag ggctcacgat tcatttcctc tatttttaaat caacccaatg tttccaaaat 240  
 atgttctttt atcaatttgt gtattcatcc gagtccactt tgggtacttg ggaaaatttc 300  
 acagcattca ccttcaggt gtacacacan tgtttttcca aaaactagct atgatcagcg 360  
 aattcttttt caaagaagag ttggaagtca tc 392

<210> 29230  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29230

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 ctatgagtnt acttagtgag agtgacttga cttaccatt gtgaggcatg tcttgtcatg 120  
 tactcctaag cgctaaacaa ggtttttcaa tgaaaatgg accacattgc atgtaggctt 180  
 gagtctagtg catctatttc ataactcttg tgtttgaatt tcattgagtt aatgattgag 240  
 gttttgggtg taatttttgg agtgtgtgaa cttgaataag tgtgaataat gtgtgtgatt 300  
 ttgtgaagtg atgttgtctg tgtacattca gctctaagta ttatattctt tacatgctct 360  
 agtgttttat tatatacgaa tgtgataact cattcccggt gtctgtctgt gtttgggcta 420

<210> 29231  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29231

agcttttaag cattgtcata catgtaggat tattgggata ttatatttat ctgctcaaat 60  
 gagagcattc aacttcaggt cggggcgaag ccagggtgtg attaggggaat gccatggcca 120  
 cctccaaaat ttaaaacttt tttttatata aaactatatt atgtttgtat catcgtatat 180  
 ttgtttgatg ttaatgtact atttttactt cctcatagt atactcttga cattattgta 240  
 gtaaagctaa taccttctaa agtgttacia atttgactaa cttctctttc tctaccatat 300  
 agtcttttgg atgcaaatga tccttagtga gggtattggg aagatgtggg aaatctcta 359

<210> 29232  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29232

tacaattaat atagaaccta taccctaagt tcacatccta ttagagcgtn gngttccctg 60  
 ttttctctag catgagggtt' ttcatagtca tccacctatt catctgctcc cccgaacaca 120  
 agttcaagat catcacagga tccagacaca acaacacaca gggagtgagt tatcacattc 180  
 ctagctaata gagaaacaag acagttaaat atacatatta tataaatgag ataccacttg 240  
 cttaaacata gctcacgtaa cttcaccact tcgtcattca aaattcactt ttcaattatc 300  
 aatcacatta cacaagaatc ccacacttcg atcaagatat aataacacat caattagcaa 360  
 gcatatgcaa tagttatgct aagacttaat cctatatgca atgtgggtacc atgtcagtga 420  
 aaaaccaccc tggggcgctt aggagtacat aacaagacac accaca 466

<210> 29233  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 29233

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 aattttaagt tgaagtcccta catttttagtt tgggccaacc aacctagcta gctaaaccca 120  
 ttttgccacc tcttatttga ccaaactatt ttagacgtgg taacaaatag taagtcggca 180  
 tggcaatgta tgatttatta cctcatgatt tatatataaa tagataaaact aaaatgggta 240  
 cgttttatgt gaatgttttt tcttattttt caatagaatc ttctccatct gagtatcctc 300  
 agcatagtct cgcttggtgt caattcttta acacaagtga acataacgaa tataataaac 360  
 tcttgtagac tgtgatacaa tcaat 385

<210> 29234  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29234

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tatttaggtc ttttgagttt cctttaactg agactgaatg agtgaatgta catgtttaat 120

agatttgaaa aagaaaaaat gaaaatttcc taaattttta atacttttta ttagtatatt 180

gtaggacatg actcaagcaa cctctactca ngacagcaaa ggatcttcat ggatttgagt 240

ggaagttaa gcggtgcatac acatacatat atgggtaaat tggttttgat atgagcagta 300

aattttagtt gcttgttcaa attctgaatg aatgaatgaa tattgtgatt ngcatcanat 360

gaagaatgct agagacatag tactcatatc tgctttatta ctggtgaatt ttcttatccc 420

tttcattaat gtgata 436

<210> 29235

<211> 405

<212> DNA

<213> Glycine max

<400> 29235

agcttttttg aaatcttgat gccttagtca acctagtaac tcagcttgcc ataaataaaa 60

aatctgcatac tgcatactatt actgttgcaa gagtctgtgg tctatgttct tttgttgatc 120

accatacaga tctctgtcct tctttgcagc aatttggagt caatgagcaa cctgaagcct 180

atgctgcaaa catTTataat agatccccctc agcagcaaaa ccaacaatag tagaataatt 240

atgatctttc aagcaacaga tacaatctat gttggaggaa tcatccaaat ctgagatggg 300

caaatcctcc acagcaacaa cagcctgtcc ctcccttcca gaatactact ggtccaagca 360

ggccatatgt tcctcctcca atgcagcagc aacaacaaag acaac 405

<210> 29236

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29236

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gatcttttct atctaatatg catcctgcaa aatcagaata tgaaaaacct gtcagtgtta 120

aggaagtacc tttaggatac cacataagca aacacttacc atgatatcca atctacttgc 180

aattaagcaa agaagtgatt caatcatacc tttgtatctt gaatgatgca ctaatttacc 240  
 tttctcatca aaggcaaggt atgttgatgt agacatanga gcatatgctt ctttgcattt 300  
 cttcatacca aattttcttta tcggntttat gcaatatctg gtttgactga agaaagttcc 360  
 atgtttcaat cgcttgactc tgagtcctat aaagaaatct aattctccca tcatagactt 420  
 ctcaaagtct ttcagcatat aacatgacca ttccttgca 459

<210> 29237  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 29237

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 aaataaccat aagaaacttg actatttcaa gtaaataatc aatatcatat tcaatgtagt 120  
 ataaaataca aaatgagaga aaaaaaatc attctcatal acacctattc aaaacacaac 180  
 agaatataga gtttggcata acattgttat atacatataa acaagattcc aacctatatt 240  
 agtatcaagt atggaataag cctagtcaat ttcaatggca attatgggac gcaaatcatt 300  
 gtagttaaca cagcttccaa aatcaggtag aagaagctca gtttttataa agaaattgaa 360  
 gaggttagta aataactcga gaaacctcct ttcaactatg ctagacaa 408

<210> 29238  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29238

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 tgtggttatt gccatgaatt tgccgggtgaa caaaagatat ggctagttgt atatggatct 120  
 agaaattaga aaaaccatat aaaatagggt atgaaaggac tctagtagct atcttaggat 180  
 tatattttga aataggaaac taatttgact gcacagctca tgttatttcg tgtgacttca 240  
 gtcggagtag aatgttaatg agttcttttg gcctgttatc ttttattaat attgcccggg 300  
 gtttcttggt acaacaatgg tcggccttac ggtttccgtg atttaaaaga ggatagccgt 360

ccatgatcca tgatccatga tgaagcattt attttaaaga aggggtgcagt gtggttaagg 420  
gaaagataga tggaaatttt atacactaat atattaacac acca 464

<210> 29239  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 29239

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agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240  
aacaacaaga tcaagaacta tcatacaccag agtctactcc aagacgaggt atcttccttt 300  
ggtaggacata tatgaaacct gtaacttggc catacttgaa cttggaagct ttgaggaagc 360  
gtcaaagtag gaagtatggg tcaaggcaat ggaagaagag atacaaatg 409

<210> 29240  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29240

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aagtgtgcac atgccaaaat aaatcgagca tcttaaaagg gtaggtgtat gcacacaggt 180  
gattctatca gcttcagga tcatgccatt tgcttgggtat gtacattagc aatataatac 240  
atagttgttt atacttgttt aacttaccac ttaatgttta ttttttaatg tttgttaata 300  
gttagaggaa cttggtcgat ctgtatatgt agatgaggtc tttcagcaca gtcatttacg 360  
aaaggatact ggtcaatttg tcgatgatag atctaaacgg acacatgtga gaccattatc 420  
ttgcatatgt tttctattct tttanatgtt tattata 457

<210> 29241  
<211> 399

<212> DNA  
<213> Glycine max

<400> 29241

agctgtgaaa agtgttggtta ttcaccttct cgctaagcca atctgtcgtg ctatacatct 60  
ttttcattcc tttctccctt tcccgaagag aattcgccga ggactaaccg cctgaattct 120  
ttttgtgtct ctcttctccc ttttccaaaa gaacgaagga ctaaccgect gaattgtggt 180  
gtgtctccct tctccctttt caaagaattc agaatgacac agcctgagaa ttcttttgat 240  
tcttcccttt cccatgaacc aaagatttca aagaactaac cgcttgacat atcttttggt 300  
tccacttcac aaagtttaaa ggactaagtg cctgagaact ttgtcttaac acataggagg 360  
atacatcctg tgtggtataa ggagagggta catctactt 399

<210> 29242  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 29242

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cacttggttac tgatcatcac cagatacatt ctcttcgttc cacatggaga gacgtaggat 180  
atacttagat attatagagg aggtacctag tacactagtc tacatattga ccgtagagat 240  
ctgggtttgaa 250

<210> 29243  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29243

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acaatagcat cacttctggc actaaattac tggtagtttg aagccatctt ctcaattaaa 120  
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tgttactgag tccttcatta aaatattgga gaagaggctg ctcagaaatc 240

tggcgggtgag gacaactggc acataagttc ttaaatatct cccagtattc atataagctc 300  
tctccactga gtngcctaatt tcttgaaata tcatttttga t 341

<210> 29244  
<211> 457  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29244

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acaagttctc cacatccaca aatcatgtac aaccaccat cccctgttgc ccacctccaa 120  
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgcc gagtccccat 180  
caatcctccc aagcttccac aacatccaag taattccaca tccaatcatc atggactaac 240  
aaaatcaagc aaaacagggc aaaggcaaaa aactctgccc aaaatacaac tcanattcac 300  
agcttttcac atgcaaatac cccagtaaca ttctcttctg tccgattcgt taaccgttgg 360  
atcgaactcg aaaatttacc ggaagtctct agtacataag tctacattnt gaccgttggg 420  
atctgctagc anagtgtccag aacctcatat gtactac 457

<210> 29245  
<211> 390  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29245

agcttttcan gaatcactca ttcccatgc atcatctttt ttaaccaacc attgctcttt 60  
gccctcatca gcgctcagga tggtacacat gatgccactt tcatacatgg tcatgatagg 120  
attactagat aagaaaataa caaatgactt ttcttgtaaa attcattctc agtcttttat 180  
atttttttat tagattgaaa aacattagat ttatcataaa tttttagaaa agttacgttg 240  
ttggaatgta acaacgtctg tggcggttaac gtttctcttg cgacggaatg agatgacagc 300  
catgagacaa ctttcataca tggtcatagc aagaaggatc agtaaatata aaggaacttt 360  
cttatagtaa ttctaatct tctacataat 390

<210> 29246



<211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29246

attcatataa tatagtttct cgaatttctt gctgatgttg tatatgatca aataagaggt 60  
 tatcatgcac ggatatccca tatgggctaac gcatgatata tgataataag tgacgatatt 120  
 attgttgctc taagatccaa gtatagtaag agccttgcta gattgaccag ccacgtattg 180  
 agaagccttg cacgccttta tgaggatgca ttataacggg atagggtcgac atcgaacttg 240  
 tcgatgatcg tgactgttat ccatatgctc gatacccata caagcaagcc caagaggagt 300  
 acggccgtga aacaaagcat atattangca tgatactata ctaagcagcc ttcctttgct 360  
 cgactatata tgagt 375

<210> 29247  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29247

agcttttccc ccaattttct ataaataggg ggagaagtga agtagaaaag gggttcagccc 60  
 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tagttccgtg aagaaaatcc 120  
 aagccgaggg gcttccgtaa cgtttccgtg agtgatttcg cgaagggttt cgaccgttct 180  
 tcgacgttct tcattcggtc ttcattcttc aacgggtaag tacctcatac caagcttttt 240  
 aattcattct atgtaccctg ggtgggtccac cttttgtttc atgtatttat attctcattt 300  
 tcattttactt tttatacccc cttttgacgt gcttaagcca tntatntaag tcatttctcg 360  
 cttaatctaa anataaaaata aatctccacc gatc 394

<210> 29248  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29248

ctcagcttga gctaaatccg actcaccata accttgccca ggtgatatgt aatccttacc 60

ctcgggaagca agaagaata gaagggaat ttccaatcaa aaaaaaaaaa aaagagacgg 120  
 aaaattccca atgaatgaga acaaagaaat gataggaatt tcccattcaa agagtgggag 180  
 aaagccaaag gataagaagg aacattccca accaaagaat gggaaaagta aaaacgaaaa 240  
 gaataaagct cccgggtcaaa gaaactagag gaaatgtgca gaaaggtctt ttgaccagac 300  
 aatatctgaa caatacacia ttgtcaccat atgaacataa taggagggaa cggaaccac 360  
 gacctanaat ggtctcctgc ctttaattac caacaaaat tcc . 403

<210> 29249  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 29249

agctattgag aggtgctaata accttctca aacgtaaata caactccga acttagaatt 60  
 ttcattttga ccggtttcct ttgggtttcc cgacgtttc cacaataaaa cattggtggc 120  
 gactccgcgc atctttctc ctttggaaag cgcacccgtg agcctcgcct cgatcgcccg 180  
 caaaagggca cattgcgaca aggtccaatg ccttaatgtt tctctcttct cataaccaag 240  
 agatcgtaa agatccagtc ccttaaatgt ttctctcctt ttaaaaaaca agagatcggt 300  
 aaaggtccaa cgccttaatg tttctctcct cccaaaaaag agatcgtaa cgggtccaatg 360  
 ccttaacatt tctctcctt caaaaatcaa gacatc 396

<210> 29250  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29250

tagctacaca tacctctcta atagctaagc tcctctnctg gagattagaa gctagagctt 60  
 agctacacac cccctataat agctaagctc acccccatga gaaaaaacat ganaataaca 120  
 aaaaaagtc ttattacaaa gacaactcag aatgccccga aatacaaggc taaaacccta 180  
 tactactaga atggccaaaa tacacggcct agacgaagga naaacctatt ctaatatatta 240  
 caagataag cggggtcata cttagcccat gggctcgaat tctaccctaa ggctcatgag 300

aaccctaggg cctttccttg gatctctagc ccaatctact tggagtcttc tagccaatgc 360  
 ccttgcgggg taggattgca tcacgagttg cttcaaggat ttccttggtc ttgtctttgg 420  
 atgcctgttc caagtctatg 440

<210> 29251  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 29251

ctataaatag ggggagaagt gaagtgaaaa agggttcagc cccttacgca cttctctctc 60  
 tatcgaatth gcttggaac atcgtctccg tgaagaaaat gtatgccgag gcgcttacga 120  
 tacgttggcg taacgttttc gtaaagaata tcgcgaaagt ctcgatcatt cttcgactct 180  
 cttcatcgth cttcggactt cgacgggtaa gaacctcgaa ccaagcttat cgattcattc 240  
 tatgtaccg tggcgcgcca cat 263

<210> 29252  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29252

ncggccgggc ttacccatgt taatgatncn ctgcatnacg gacctatgaa actaagcttg 60  
 cgcagctcg ccagacgaca ttgttgcttc tttcaatatt aaaccttttg gaggaagggc 120  
 ctagaacgcc caagtgggccc agcattgcta tttggcacc cttttttact aaatgcacac 180  
 cttctattat tttggtaatt ctttttccgt aacgttacga aactttatga actttgtaac 240  
 gatacttatt tacctttcct aaagttacga atcttttccg attatgcatt tactcttttt 300  
 tcacctttcg aaaagatacc ggaaccacaca gattgcgcaa aaacatctct tttcaattcc 360  
 gccacttacc gaattcacgg atcgcacagc cttgttcttt tgattaccag atgttctgga 420  
 ctcatatttg tgcacaaagg tcctaaccac tcaacctgnt gccatcggtc atgcatcagt 480  
 atact 485

<210> 29253  
 <211> 390

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29253

agcttttctt caaggcattg ttagaaagat ctagagtttt aagcctagaa aggtttccta 60  
tttcatttgg gatagctcca ctaaactagt tatgactaag agaaatgtct gtgagttcac 120  
tgaagccacc catgtggaag caatgccttc caaggttatt ttgatgatgc caaagaatca 180  
agagttaagc aaattccaaa gattcaagaa tgaatttttc aagaatcaag tttcaagaat 240  
caagattcaa gaataatcaa gatcaagatt caagattcaa gatttaagaa tcaattaaga 300  
taagtattaa aaaagttttt caaaacattg agtagcacat gaagttttca canaatcttt 360  
taccaaggag ttttactctc tggtaatcga 390

<210> 29254  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29254

tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgttttcttaa acctccatta 60  
attntttgat ttaccttctc ttccattgnt gntttctcat tttttttctc catgtatctc 120  
ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagttttcca ccgattaaac 180  
ttgctataga agctagattt gattttctat ggttcaaatt tggtgttctt gttcttgaac 240  
cataaattgt gttgagttta gggttccttg agttntgtct tgttatTTTT tttggctgaa 300  
acctaaacca taaaattctt acaaaaatat taaagtagaa gaaaacctca aaaatctaga 360  
gtgacttggt cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgct 420  
acataagatt tcttatg 437

<210> 29255  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29255

agctattcctt tccctttaga ctttttctag caagnagatg taacatagtt aaaaaaaggc 60  
 taattaatta acaatgctga aatgttttgt agcatagctg attaatatat ggccctaaaa 120  
 cttgcgtttt tggattttaa gccatcatca aagaacttgc tggctactta aactagattg 180  
 aaaattttaga cacatatagc tgtcctaaaa cttgtattgc ataatttgaa aaggatatta 240  
 catatttaca tcatattcct atgtgtatta tgtaatgggt agtttgtacc ttcttttgca 300  
 ggggaaagat tacgagtctg gcttgctctc ttcccaactg tttatttgtc agcaggaact 360  
 gcaacagctt tgattcttat aggagggg 388

<210> 29256  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29256

tgaggatggt gtngcggaga tgcgggatca atatacggat aaagttatgc nctcttttta 60  
 ctataagngc atggcatatt tatgttgcta accaattatg tgacagactg gtatttgaac 120  
 ctctgtaat tctctgaatg gatgggtatc acctgtacat gggttcatat ggttcactga 180  
 tgaaatggat tcattcaact ctacttaatt taaaataaat aaatagaact cattgataaa 240  
 cattgttata taataatatt ntatcactca aagaagataa tcaattctca tcataatcat 300  
 ttttatcaaa aataatataa tctctgaat taattatcac aatacgatag attttgaaaa 360  
 acatcataat aatgaataac ctctatttta aaagacaata taatatatag tgatctcaaa 420  
 acacaaattt tctctttcag t 441

<210> 29257  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29257

agcttttaag cagagtctat ggtataaatc acattcacaa gtaacatggg aaaggcaata 60  
 tttggagcaa ataaaccaa atccactact tttccttgat atgactatta ttattaggct 120  
 gtaggttgaa tgatttgaaa gctagactat catcggtgat gccctgtctt ttacacatca 180

agacaagaat ttattatagc actagccaag ctataaaaag aatgctatga tgccagatag 240  
gcaattcaag ggaatctttt gattacattc aagtgcatac aaaatggtag actgtagatc 300  
cagatgatgc attattaata gttacatttc tcacccagct tccacaaact cagcactctt 360  
acagannatg atatntanga atcctaaaagt tcatcactat gctttttttt 409

<210> 29258  
<211> 452  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29258

tagcatgaat aagacaaaag actcaagact tgcttttttta gtttgaatga ttttgtgatg 60  
gtgtcngnnt nntagcgcta gcaatcgtct ttgcagcagt ggatcgtgaa tgaagattct 120  
cttgtttctt tagagattnc agcaatgaaa ttcaactctg aaggtgggtga gtatatatta 180  
aatatggcag caagttgttt aatttgcaac ttttgcggt tctgtattct aataattttc 240  
tttgagtctg cagatcatat atatgttttt ggtgtaacgc aactgtccta gatttcaccg 300  
tctcttgctt gtaaagtcac cgatcaacac ttgtttctca ccaatctctg catataactc 360  
aattccttga atcttctgca agagaggtaa gcttacgttt gctcatttcc tatttgcatg 420  
gatatgttca gtccaaaatc caaatcaatg gt 452

<210> 29259  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29259

agctttttaag ctctgtttcg cctcttcaca atatgagggc cttacggggt ctcttttcaa 60  
actcatgcag aaaggaatag taagccaata cctgtcagag ttcgaggaac tcatgaatcg 120  
cgtcattggg cttcctccat cctttctcct aagttgtttt gtctccggtc tctctccoga 180  
catccgccgt gaagttcaaa tccaccaacc gttgacagtg gccaggttt ctggtcttgc 240  
gcgcctgcag gaggagaaac tcttgatca tcggccacca ccaccgcgac cacaaccacc 300  
accctcaacc ataccacccc ctcacaatcc ttccttgcca ccactattac cctccccacc 360

ccggccccct ccacaacaac caccncaac actaaagcg

399

<210> 29260  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29260

agcttgatga taaagtcacg ccacatattc taattgggta tcaactcaact aaaggctaca 60  
agttgtatga tccaagaagt cgtcaagtgt ccattagcag ggatgttata tatgatgaaa 120  
atggaagctg gaattggaat tcaacctcta gtgaaagtca gtccaggata ctgttagaag 180  
aagaaacacc ttcaactgca ccaactgtta acaaagttcc tggcataaga agatcatcaa 240  
ggagaagtca actgccatta cctttgaggg actatgagtt gtttcaagat tcataagtca 300  
acttagaggg agaattgggt cattntgcac tcatagtaga agttgaacct attgaatttg 360  
acaaagtagt gactaatgag atgcggctga aagctatg 398

<210> 29261  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<400> 29261

gcttgaaggt gtgtagccca ccatcttttc atagtagaat actggtaatg tgtctactat 60  
tattgttatt attgttttct ccgtcattga ggtgccactt gagctgcaa gtctctccac 120  
ctttgggcgt attcttttga aagattcgtg cccccctttt gcacatgttc tgtagttgca 180  
tcctatctga agacattata ctgacactgc ctaacgaagg caaccactag gtccttccaa 240  
gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc agtaagactt 300  
tcttgaagg aatgtataag caattcctca tcttttgcgt atgcctccat cttctgataa 360  
tacatcttta gatggttctt ggggcaagta gtccacttgt acttgtcaaa gtccagcacc 420  
ttgaatttgg gaggggtgat gatattgggt actacgaaca ac 462

<210> 29262  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29262

agcttctgta ttctttttcg attttctcga tatattacgg gactcaatca gacatccgag 60

taaaaagtta ttgtcgtttg aatttgctca gagcttcgat aatcaattcc gagcatctcg 120

atatattacg ggactcagtc agacaaccga gtgaaaagtt attgtcgttt gaatttgctc 180

agagcttggg tattcaattt ccagcgtctc gacatattac ggtactcaat cagacatctg 240

agtaaaaact taatgtcgtt ttagttttct tagagcttcg gtatttaatt tcgagcctct 300

cgatatatta taggactcca tcagacattt gagtaaaaaa gttattgtca tttgaatttg 360

ctcagagctt caacattaaa tttcgagtgt tccgatata 399

<210> 29263

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29263

ntgagcaaat tcgaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atctagacgc tcgaactgga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactctgatg tctgattcag tcccgtataa tatcgaaacg ctcgatattg aatggtgaag 180

ctctgagcaa cttcaaacta cagtaacttt ttactcggat gtctgattca gtcccgtaat 240

atatcgaaac gctcgatatt gaatggtgaa gctctgagca aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaact ggaataaccga 360

agctctgagc aaattcaaac gacaataact ctttactctg atgtctgatt cagctccgta 420

atatatcgaa acgctcgata 440

<210> 29264

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29264

cgttgcacgc ttgtgactct tgtcaatctc tttaaaacta gtcacttaaa aagctgtgac 60

ttttgaaaaa atcttcagaa acaagtcact tgtagaatta tgacttttgg aaatgtattt 120



ttcaaaatca gtcactggta atcgattaca catcaacaga tgtgactctt ctttttgaat 180  
 tttgaaaatt aaaacgttga gaagctcttg taatcgatta cacaagttta aaatacttta 240  
 aaactgttta aacataagtt ataactcttg aaatttgaaa tcttaacggt ntagaacact 300  
 ggtaatcgat tactaccttc tggtaatcga ttaccagaga gtaaaactct ttggtaatga 360

<210> 29265  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29265

tcagacgata cgcaaccttg cccatcctct ccatcaccgc gaatgttoca tagtacctct 60  
 ttgccaactt tgagtatgat gtctcaaaag ctgaggtttg acgatgaggt cgaagtttga 120  
 ccaacaccca gtccccgatg ttaaactctt gaggtcgtct ttgtgcgtct gctgtctact 180  
 tcattctctg ctgtgccctg agcagtttcc gactgagcag cttcaaaacc tcgtcgcgtt 240  
 gggttgagcac ctcatccacc gtgttgatag acgatgtccc ccccaaatat tccggaatag 300  
 caggtgggtt cgcaccgtag atgatcttga acgngtgat ccttgtgcct gagtggcatg 360  
 aagagttgta tgaccactca acccataaca ggaattgccc ccacg . 405

<210> 29266  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29266

tgcacgcttt tatatgngtt tctgagcgca caccatggaa ttcccgtgat tcgtaggcgt 60  
 gtgtgggttt tcggaaccta ttcttggttc agtataattc atggaaagaa aattaaaata 120  
 acattgggct tcaaaggcca aaggggttga ttaagcttcg agcttcgcac aattggggag 180  
 aaacaatgta ttgctggaac atgtcatata tatattggat caatgtcaca tacagagaaa 240  
 gtcacttggg cactttgtta agacgagatc tgcccttggt attaacattt tcgatcagca 300  
 gatctttcca tctctttaan atcgagaaat acctgtataa cacttttata tttaattntg 360  
 atattaagct gaccactatt ctctttaact aaactatcta ggtatggata tgttactcca 420

gatgatgtac cttctatttt n

441

<210> 29267  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 29267

tctcctatta acatagtaac aacaaattac gccttgccta aacttgattt ctagaccaag 60  
ttaattgaaa tatacatgtg tgcattgttg ttaaattccct attcatcact ttgtcaattg 120  
attaagctat tacaatccaa tgccttcaaa ataaagactt agtacatgtt atagggaaga 180  
tggagtctct tctttctttc tttctttctt tttttcttct taaaggctgg agttacttct 240  
tactgtgaaa cataaatcaa tataccagag acacgtttga gaataccttt atctaactt 300  
gctttttatt gcgttataat tctcttaggt tgtaacatat tctatatgtc atttacttgt 360  
caaacaacaa accacctatg catgtataag caaaaccaa taatgctaata aacttggcct 420  
taaatacatct ttcata 435

<210> 29268  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29268

agctttgaca tcaacaatat gggtgaaact ggtccaacat gggcatcatc gttcttcgat 60  
tcagttgctc agaggatgat gcagtaacgcc tcaccgacga attgctattn tgcataagatt 120  
caaaggcatc tacatactcc cagtaaaatg gatcgcgctn tgttgacctt gggttcctgc 180  
tcataagctnt ctttggtgcc cccttcgtgt taacctttgc tggaggagga cacatcgaat 240  
tctgatcagg gtatgcaatt tcccaaagtt tagtcttcaa agtaaaactta ccacaaacat 300  
caagttcttc gaatctttta aatattgttt ccattacttc cttgatgctc acctcgggct 360  
cagataaccc ttggtctgaa naacttagtc tctccagaa 400

<210> 29269  
<211> 457  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29269

ntcacccctat aattccncca nnattgggca aatttgcttt gaattttttt ttcctttgat 60  
gaatgatgct ctccacaac ctaagacaag gtagaaggag ataaactgta caggctcaag 120  
gttcaatcaa ataatcatac tttcagctca aaatggatgc aagggataaa tcaatcatgc 180  
acaaggtaag cgttttagct aagtggctat cttcaatcaa aacatgggtct tcatcctctt 240  
cagactcaag tattcagtc atactcagag attcatgcaa aaaccattac ttactactag 300  
tcgttctctc acaattaaag atcacactct cactgggttg cggctaagtc attccttcac 360  
aatcaacctg acaaaccaac taacattntc aatcataatc ctaattccat gttctttctc 420  
ttctaataac tgcattgctca ttcaaggcat atgatct 457

<210> 29270

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29270

agctttttat ntgttaaacc aaggctcatag gctaattgtt cacacctttt ctccatgctt 60  
cttgataagt cctatgtaaa gcgcttccag gcaaaaccat tagtaagaaa aggcaaaact 120  
attagtaaga aaagtctaac agacctaaag tctacttctt aaaagtctgt tgtcattaag 180  
acatttctct cttaaagggt tttgcttcaa caatgttact acttgaaaag aaacaatcta 240  
aaatttaaaa aaaaacaata tatatatata tatatatata ataaactaca tgttttcata 300  
tttatcatca aatataataa attgaaaaat gtatgcta atgcatctct tgaaatacaa 360  
tctttataat atatttgta atagatataa acatgtgc 398

<210> 29271

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29271

tgctacaagt ttagtagaaa catgctttct aaccaaaga aaaatattga atgtgaagga 60

gttaatcagc acttttagtt gtaccagttc cctaagtata ctctggttct agccagcaat 120  
atattttggt gctaaccagc atgtcctttg gcttctaact gcctgactta attagctcca 180  
ttcttttacg tatcaaaaga acctagctct gacacctagt tagtgctgga taatagacca 240  
taaagtctac catgacatag ccttacgaca aatgtatact attccaattt ccaagttcta 300  
agacatatta aactctntta acagtttagta tagatagccc tgattgtcat gttttccttt 360  
atatattgac ttttatttct tatctaactt ctattcgag t 401

<210> 29272  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 29272

gcatgtgcac gctttcaagc tattatcgaa gttcaacatt aaatttagaa gtgtttacat 60  
tattatttaa ccaagtttaa attgagtttc tattagtttt aacacatata ctgacttaat 120  
tagtctttta tttatttatg tatttatttt gctaactaga ccttctccta taatgatttc 180  
gttttctgaa atactaataa taatacatte tttaatatc cgtatttttt ttaccactc 240  
tcttggtaaa agaaaatttg ttcgggcttc attaaatatg agaattctcat tattctatat 300  
gtatctgtgg agtcttattt ctaaaacggt ggaattaatt cacataaatt tcaagagagt 360  
tggtacatta aatgtaaggg acgttgtggt gtgatttggc tcgatattta 410

<210> 29273  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29273

tgcttgtgga gcttctatgg aggctggatc tttgagctta ttgttgcct ttaatggtgg 60  
ttttccacca tggagatgca gcggaagaca aaggagaaga ggggagagga ggcgtcatcc 120  
actatggaat aaaccatgga agaaggagct tcaccaccaa gatgagcctt ggataagaag 180  
cttggaagga tgcttcaatg gaggaaaaga aagagggaga gaaagagaga ggggggagca 240  
cgaaattgaa tgaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc 300

ccattcatca nagttacaac aagtgttaca catgcttcta tntatcagat angtagcttc 360  
 cttgagaagc tttcttgaga aaa 383

<210> 29274  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29274

tcaagctttt agccccaatt ntctataaat agggggagaa gtgaagtga aaaggggtca 60  
 gcccttatg cacttctctc tctttcgaat ttgcttgga aaattgtttc cgtgaagaaa 120  
 atctaagccg aggcgcttcc gaaacgtttc cgtaacgttt ccgtaaggaa tttcgcaag 180  
 gtttcgatca ttcttcgact ntcttcatcg ttcttcggtc ttcaacgggt aagtacctcg 240  
 aaccaagctt ttcgattcat tctatgtacc cgtggtggtc cacattgtgt ttcgtgtatt 300  
 tttattctcg tttcatttac tttntataacc ccctttntga cgtgcttaag ccatnntatt 360  
 taagtcattt ct 372

<210> 29275  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 29275

gaactataaa aaactaagct tgccgccagc tcgccacgc gagattgttg cttccttctt 60  
 ttctcaacct tttggaggaa ggtctacaa tgcccaagt ggccaaaatt gctatctgca 120  
 ctcccccttt tactaaatgc accccttcta tctttgtggt aattcttttt ccgtaccgta 180  
 cgaaacttta tgaattttca acgatactta ttcaccttcc tcaacgttac caatcttttc 240  
 ggattatgca tttactcttt tttagctttc gaagacgtta cggaaactca ccgattgcgc 300  
 aaaaacatct tttattgact tccgccacat tacggaattt cacggatcgc acaagcctgc 360  
 ttctctttga tttccgagat gtctcgtgac ttcatttatt 400

<210> 29276  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 29276

agctttatgt gtcttaagtc atggtttcct ttcttttttt tttcttgttt gtgacaattt 60  
tgtacgttat tcagacattc cctgggtccaa caaccttttt gtatatatttg ctttttcttt 120  
cttccgatct ttgatcgga aattttcttt ttctttcgct ttctccaat ttttgatcgg 180  
ggattctcgc tttttctttg ctttctcca atctttgatg gggaattttc tcttttcttt 240  
tgctttttga agcacattca caacttaaca gtaaatgaaa ctcttttttt tgggagatcc 300  
ttctgttctt tcttcttagg gcaagggtaa aaattcctat catgggtcaa ggtttat 357

<210> 29277

<211> 403

<212> DNA

<213> Glycine max

<400> 29277

agcttggtta aaattttcta actattatag gataaagtgt aaactaacc cagcttgaga 60  
gatgtgtcag aattaccaca gtctggagga aattcagatg aactgcaggt aaatgactcg 120  
tatgggtgcc tttgttctcg tacgaagctc tgtacataaa aatttctatt acattattta 180  
caccagttat tgctaagtca taaagtatct ctatcaggaa gctcgtggac cagaaataaa 240  
tgggcaagat ttgaaaggc gtaaccacct gttcaattt ctggttctct tccataagtt 300  
tggcttctt cagagcaac attgccaaac atcattgcag aaaaagggtt tgtgaatata 360  
gatagatgaa aaattgctta tacgctgtat tattataaac aac 403

<210> 29278

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29278

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aaaaggataa atttggaaga aaaaatattt agaaaagtta aaactaatta acagttaa 120  
gacagatgtc acaattta 180  
gcatttttca aactaataaa ttgataaaaa aacatccttc taaaaaacta attttattaa 240

attgatgaaa gaaaataata ttattaatat tagattcaaa actaaattaa tatataatgt 300  
 ttgggtaatt gagtcaaagt ggatgactta cttccctggt taaccatttg agttatTTTT 360  
 gttatactaa actttntaac atgtgatggt acagaaaaac aaaaatcaaa tcataacctc 420  
 agtcattgcc atgaaatagt tgtcttggtt tggtccttct aagctctctc tctttc 476

<210> 29279  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29279

agctttctta ttcatttttc aagttacaag tgaactcccc aagaagtgac atggcccact 60  
 tgtgggtttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120  
 caaggaggta cctttggggg accttaaacc aacattgggt gtgcccttaa ggtacttaat 180  
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240  
 gcacacactt agcatgatgt caagttggct tgtagtcaaa tataggagat aaccaatcat 300  
 acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360  
 tgttgccatt ggtattgttt cttccttaca ctnttcata ttg 403

<210> 29280  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29280

agcttctccg acagcccttg gaccatttg ctttttatgt angtggttct tttcttagct 60  
 ttggttttgt tatgcactac attagggtag gttagtgtaa cgtaggtta gtggaacctt 120  
 atggtagaag acggaacctt atggtagaag acgaaaccta gggtagaaga cgagaggatg 180  
 ccggaaaaaa tggcgcaaaa ggctgacgac ggagtcttcc ggaagaccg ttaggggttc 240  
 ttccggaagt aaccaaactt cttccggaag aacacttctt tcggaagact ctccgataac 300  
 ctcttccggg aactttcc 318

<210> 29281

<211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29281

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agcttttcat catatgttnt aatctacaac atggcctttt cccagtcaag ggtagttggt 60
gctcgagcta ccatccgcat caactctttc atgtgtgctc cgggatactt cttcttccag 120
ttaccataca aatgtttgat acacagacga tgttctacgt tttcaccaag ctctttgatt 180
acctcaacca aacctgaaa aaaaacagtg cacaaattaa atgaaaaaaaa tagtgcacaa 240
attaaatgaa agccacagtt tttatttacc ttctgtaggt caaaaatgaa agccaacat 300
ccctcctaaa taccatctag gtcagctatc tacaaatcaa caaaccactt ccaagatgaa 360
taattntcag attccactac aacataggca aaaggaaaca tttgattg 408
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<210> 29282  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29282

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atatgcatgt gaatttngaa gcattttcaa gaatcaagcc aaggctattg tgcaagccat 60
caatggggca aaacacacca aatgattatg atgatggatg gctcaaattc tcacaaaggt 120
aaactcatca ctttccaaat gaacttttaa aactatcatg acatgtagaa gagaatcaag 180
ggattcaagt cacaaaatgt caagactctt attttcaaaa caattaccca tttcttgaac 240
atatactata attcaaagaa aaaaacatgc aaagttgtac atgcgcacaa aactgaccca 300
aaatattaaa ctagaaatcc gacganacta acaacattaa caaattaaca caactaacia 360
attaacanga gactaacaaa actagcanaa ccaaagaaca ctctccncc cccccgcat 420
acttaaacia caca 434
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<210> 29283  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <400> 29283



agctttgtct gattaacata aaaattggat ttagaagttc taatcaaagt tggctaaaaa 60  
agttattcgg tgctgtgctt aaatattatt gttcatgcat cttgggggtg cgacttacag 120  
agggttttga gagaaatatg ctgcattgaa atacggaaga gagaaatatg gtgattaaaa 180  
atatatgaga aatagaatga atttatatgt acttgggttg agagaaagag tgggtggatg 240  
catgtatgct attttttatg taggtgggaa tttttccaaa aatcttaatc acgtatatat 300  
ttgttattat taagataagg ctttattgat attattagga taaaatattg acattatcaa 360  
taaaggataa cttacatgtc ataatatatt t 391

<210> 29284  
<211> 438  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29284

cgcctttaac gataaaaata acacaaattg atcttaaaat tataatttat ctttaaataa 60  
aacgattttc aattctatca aattagtcca atagaaatat attaataatt aagtctaata 120  
aaaaattatt gacattttca tccaataata ataatttatt aacatttttt gtccaataga 180  
acttactcat atctaagtca aaacaatgag tgacatttcc ctcgaataag aaatatattg 240  
acatttccgt ttaacaaaaa ttattgatat ttacgtccaa aatgatatc ttattgatan 300  
ttttgtccaa ttttaattagc atgatcacat tgacaatcat ttgaatgata aatctatcct 360  
tttgtgtcat gtagaactat ttattaatca caacgaacaa tagttaacga ccgactanta 420  
ttatcacact tcttatat 438

<210> 29285  
<211> 285  
<212> DNA  
<213> Glycine max  
<400> 29285

agctcagtac cccggtgagt actctagaga tctctctgca tgcattgcgcg cgttttctag 60  
cttttattca acattctcac gagcagagtc tgctgacccc aacttgagag atgcgtgtga 120  
atatccacag tgtgcacaga aagccagagg aaccgccttg ctatgtcttg ttccgagcct 180  
ttattctoga actaaccttc gtacaaacta acctgcattt ctttatctac gacacatgct 240

gcttcgttac ttacatcta tcttaggtgg cgagtggacc actat

285

<210> 29286  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29286

ccccgcgcac gagctatgtg annccattgt annaccnoga cacctagaaa actcacgctt 60  
gtaatcgccc gttccgagga gggtgcgcgt tttgccccgt ttgcagacag cggaggcgcc 120  
agagagcgat attcatgatg gccgctctc cattaagggga taagattcat gtaacctatc 180  
tacctacgac attattggta tccacaacat agaaagtttt aaccattgat tagacatttt 240  
attctaaagc aactaaactt tttctacaat tcaaaattta tctacaatct ccataatctc 300  
ctcatcccaa cacacttgcg attgtattct taatctaaac tattattatt cgatcacaca 360  
gtcaaaactgt gatgttgaat tacattactg actactcata tcgagagtac atatcaacta 420  
aattctttac ctacggtgag atgcatatgt gcatgcttta aatgttacct atcgtcattg 480  
tccggattaa atagtcaatc atatgctcac aaatctttat aatagaacg 529

<210> 29287  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29287

ctgcaagctt gtgtctagtt tttctaaagc anagggttgt tcattctgtg tgtatcaaga 60  
gtactatcca ttccatatat aatcacttct tgattagggg tttctttcta aatgaagggt 120  
acacggcaaa ggaaaagtat tgaattataa ctcccgaaga aataataata caatacttct 180  
gacctttaat tttacacat tcataattat tacattttta gaacagttat ttcataagtc 240  
aataatcatt tatccttttg gtatatctag attaaaaaga agaggatta tatagatttt 300  
acacaatcat taatcactat atgataattt caaagacttt taaagtattt atcttataat 360  
aagttaaagg atgacttggt actagatgat aatat 395

<210> 29288  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29288

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtttg acangtctat 60  
 attcttctc cattattatc ttgtgcatat agtaggcagg ctgattcctt ttagatctaa 120  
 tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180  
 tctgttgtaa gcttactatt gatcaccaca ggcttggtct tgttctcttc caagaacata 240  
 cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttccgct 300  
 tttcaattct tcaaaactgg tccccctgc aggcatattt tcttcacaat ctaagccttc 360  
 caagcaagcc cataaattct tcttctcttc actgggtaga caatctacaa cattgggtcaa 420  
 agctttctcc agtaaagttt atg 443

<210> 29289  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29289

tttcaagctt tcttcggggc atttcctgcg aaggcaaaca tttggaaagt tagttttacc 60  
 agtgggacac tactaaaaaa aaatggcata caacctctc ccataaatac aaacatcaat 120  
 gtaaatttag agcaagctta tgogcatatt tccttacgaa cgttcacttg cacaagacat 180  
 tctattaact aagaaaaatg caccatata caatcaaggc agcttcgtta cctagattat 240  
 ttacatgtac ttccaaggtg tatttggttac ttacatcaca cacatttcct tggctaaatt 300  
 tacatacatg catactcaaa gcattntggg gtacaaaaaa ttgcacatgt gcacatcttg 360  
 gtattttctaa tacctgtaca tgcacaaact tcatgatgaa tcttg 405

<210> 29290  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29290

tatacggcct angatgtggt tttgtgacta aattcaattt agacacaagt cttgcacttg 60  
ccacattgct acaactccct ccatcattga tcatcatgca aactttgcca ttgatcaaac 120  
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatggccaa 180  
gtaatcatca acaattctcc ctctgggtgtt ttctccactt cctcctcctc atcctcactc 240  
tcttctccct tttcaacttt ggactcacta atgtactctc cgtctctaag aatcatggat 300  
ttcttgatag ggcaactcata tgcataatgt cccaagccgt ggcaccgaaa gcacttgaca 360  
tcccgaacant ttttntagga ttgttcttgg acatttggag gagttnttga tggatatangt 420  
gttgccattag aggtggcaac ccc 443

<210> 29291

<211> 402

<212> DNA

<213> Glycine max

<400> 29291

agctttatat gcattgcata ggattcggaa tctagtgtga taaagaataa gagaaccccc 60  
tatagccttg ttccattccc agaccagcac ttgaattttc tctaatagct caaaagatag 120  
ttataaaggc aatacaaatt ctaataaact aaggggacaaa ttttttttat aaatcctttc 180  
aaaaagaagt taaccaatta agatctcact taataagaaa aagtagggaa gccaatgtg 240  
aagcaaagca acaataaaaag acaacaacat gagaagacaa gaagcaaaat tcagtcctat 300  
caagcatacc gctgcatgaa ctttgctcaa aatcaatata atggcacaaa gggatgcaac 360  
aacatgagaa gataagaagc aaaattcagt cctatcaagc at 402

<210> 29292

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29292

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gcacgcttag cgcaactact ctattgaaca aacttggtt agcgagcagg ctcgctaagc 120  
ccaattccca aaatttgaaa aatagagaga taattgcgct tagtgtgata gggcatgctt 180

agcgcacaac aaaacacaaa aattttctaag tgtctgagaa cacattactc gcttagcgca 240  
cagacgcact tagcgagttc ataagcaatt gaactttcaa ccagagaaca tgaacgtgct 300  
tagagggaca gagccacact tagcgagttc atctagaagt ctagatgttc aacagaaacg 360  
atgaactcgc ttagcgcagc atggtgctta gcgtgctcat cgcgatttcc agaaaaagca 420  
ggggctttctc acccctccac t 441

<210> 29293  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 29293

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taaaactata ctcggggtga ttgattgggt caattcaaca tcctcaaagt gtgctaactt 120  
ttaacacctt ccaaaatgaa attttttatt actttcttaa gatcaagatc atatataatt 180  
attaacgtca cttattttct ttttttattt tatcaaacat aattaattat cgaaaataat 240  
tcaagtttca catcagctaa aaataatctc acattaaaat atataagcga aagataactc 300  
tcatccatta ttttaacatta tcttaaagta ctctatgtac aatgggatcca 350

<210> 29294  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 29294

catctaacca cttaattctg gtcaataaaa tcaagtaaatt atttctcatat tgccctaacaa 60  
atgtttatgc cttttttata attaaataaa aatcacattt accacctaata ttctctattg 120  
atctcatgca taatccggtg aaaaaccaat ctttatacta atatgtgaat gccatatggt 180  
acaattcatc tattatatat acaacatata ctaccgtacg atttttttat gaatgtcaaa 240  
cttcaaaaca ctacataaaa cactaagtct tataatgttc tctgacgaca tgaataatct 300  
acataatatt attaactact tc 322

<210> 29295  
<211> 368

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29295

agcttttggc aagtgtagca acatagtata cggaaangat gctctagctg tggatagagc 60  
acggcacact gctggagaaa tcgctataag agatcacggg ccaatttttaa ttgaggtgca 120  
atcagctccc ttcatgcgta agacgatcat tgcctgatgc cacatcattt taatgttcac 180  
cgagctgatg ctaatggcta tataaccttc aggtctctac tcatgcagtc ggacatcact 240  
ctacatctga tgagtaaact aagtaccggg gaactgatga gatcgaatat tggaatatgg 300  
caaggaatcc agtgaatacg gccaaaagac gggtagaaag gaatggttcg gggagtgaca 360  
aggatgaa 368

<210> 29296  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 29296

agctttcata atggttgcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60  
cagatttatc aacaaagtgt accataattc tatttaattg atatccacgt agggagtgat 120  
tgtagcctat aggggtgtcta tacaggggat gtctatacag gatatgaagc ataaggtgga 180  
ccttgcggtg attcaagaca caaacaagga gtcttttgat aagctcatct gccaatctat 240  
gtggggagat tcctatgttt cttggaattt tgtaccttca atacaggcat caagtggatt 300  
gttgcgcttg cggaataact catattttca ggtggagagg agggataagg gtagaaatat 360  
tctaattgctg gaatggaagt gggtaaaaga gaatcagtg a 401

<210> 29297  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 29297

cctcattgca gtcatttcac acaacataac ccacatgaca taagattaag acatgggtgtg 60  
aaggaaactta ccgtacgttt gagcaatcct ataatttctt gatcttgcca aagccttatg 120

tcaacaatat tagcaagcaa atcaacctcc atcaaaatgt gggattgttc attgggatgc 180  
 tgacttggct tcctcttaat ttcttcttcc tttagcattg agaggataat aatcttagac 240  
 attacacaat aataatatat agatcaatta aaataagcat catatctatt tcacacttct 300  
 taatattaca cctataaagt cacatcaacg tcttcattac cttgtctcga cttttcattg 360  
 aacctttcct ctaatatata caccgacacc tct 393

<210> 29298  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 29298

agcttctttg agaattcttc cttgagaagc tagagcttag ctacacacac ccctctcata 60  
 actaagctca cctcctggag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120  
 ctacacatac ctctctaata gctaagctca cctccttatg atgagaagct agagcttagc 180  
 tacacacccc ctataataac taagctcacc cctatggcaa aatacatgaa aatagaaaaa 240  
 aaaaatccct actacaaaga ctactcaaaa tacctcgaaa tacaaggcta aaaccctata 300  
 ctactagaat ggccaaaata caaggcccaa acgaaggaaa aacctattct aatatttaca 360  
 aagataagca ggctcact tagtccatgg gctcaaaatc taccct 406

<210> 29299  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29299

tatggcctca tcaaaatact tgtttcccgga gggaaattct ataaatagat ctctcatctn 60  
 taatggagtg ggttaccact actggaaaac cgcgatgcaa atctttatag aggcaataga 120  
 tttaaattatt tgggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag 180  
 tgcaacaata gaaaaaccta gagnaacaatg gactgaggaa gaaagaagat tagtacaata 240  
 taatttaaag gccaaaaata ttattacatc tgccttaggt atagatgaat actttatggg 300  
 ttcaaattgt aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac 360  
 aacagatgtt aaaagatcta ggataaacac tntaacgcgt gagtatgaac tntntangat 420

gaatgtaaat gaaagtatac aagacatgca a

451

<210> 29300  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 29300

agctttttaa tgatttgatt ttcaaaaatt aaaatgaaga gtcgtatctg ttgatgtgta 60  
atcgactaca ccttactggg aatcgattac cagcgactga tttcgaataa tacattttcca 120  
aaagtcacaa ttcttcaaga gacttgtatc tgaagatttt atcaatagtc acaacttttt 180  
aagtgactag tttttaaaga cattaccaag agtcacaagc tttgacttga gtcacaaaga 240  
gattataaat atgtgaccat ggcattgagt taataattat ccttcagcat ctttatcatc 300  
catcattcat cgatcatctt tgaatcatct atctattcat atgtttttac acaattgtat 360  
gattcatatc tcttcatctt tctaaaagtt tttgatcagc actt 404

<210> 29301  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29301

gagctttact aaagattact tgggtgttca gatagtctag acatttatga tgaagcactt 60  
anagattttg actatgtaag aggttagtca taacacttat tattaaatgt tctgatatga 120  
tgatgagaac ctaatatcaa tgtgcatctg ctcatgttca gaagatcatt acatagataa 180  
tgtatctgtc acttgttatg agaaaacaca ctatgtaatg atgagtcac actcagaacg 240  
ttgctgggtt gactacagtg ctcataatgc tatactcagc acgagatggg gacgctcaga 300  
atgttctagt gcaaatgcat tatatatgac aacgcataac ataatgttga gaggaacaga 360  
aaagatgatt taacacatgg atattatacc cgttcacctc aatcttgccg tgcgttcaaa 420  
cctcacccaa actgatgaaa tgttcactaa ca 452

<210> 29302  
<211> 323  
<212> DNA



<213> Glycine max

<400> 29302

gcgcgtttgc tactcttggc aactgtctaa ggaagctact catggaggtg agcttagtta 60  
tgatacgtgt atgtgtagct aagactctag cttgtcacgg aagtgatctt attgaatctt 120  
ctgcaggaag tttcctcaag atagcttcta acggaagcta cctagtctat ctctagatgc 180  
aggtgtttcg cttagtgcac cactgatgta tgacagtcct gtgagacaca cctgaaggca 240  
tcacatgtct ctctctttct tccttaactt actggctcgg gcctctgtct tacgatccat 300  
ccatccttat ctccattgaa gca 323

<210> 29303

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29303

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atatgttcta ccacaaaggc tgacatacct aagggtgtccc atatgactac ctaagtatgt 120  
attgaaacta aaaataagaa caaacctacc taatgggtcc ctatgtgcac tcaccatgaa 180  
gatgttaggt gtacaagtga ctttacaaaa gagagttgca ccaactcataa cattcatcat 240  
accacctatt ttagggactt ggtacctaata aatatctatt ttgggcacca acaaagcaca 300  
tggatttaag ctcttgcgaa ccataccctc atactacaac ttctttactt gaggaatata 360  
ctc 363

<210> 29304

<211> 319

<212> DNA

<213> Glycine max

<400> 29304

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gttatgagca atgtccactt gacacactct gcaaagcact ggaggatcgg ttttgcacct 120  
aacatacgca aaatcctgac agctagctag ctaagagcta atagacgatg atttttgttc 180  
ttcacacata cataacataa tagctaatac tcaaccatac agtcattatt caccatgtaa 240

atttaacgcg ggaatccgaa ttcctatatc aaaaaagtct tagatgcgtt gaacccgaat 300  
tctgaacact atctattta 319

<210> 29305  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29305

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atccattcaa tatataatca cttcttgatt agggggtttct ttctaaatga aggttacacg 120  
gtaaaggaaa agtattgaat tataactccc gaaaaaataa taatacaata cttctgacct 180  
ttaattttaa cacattcata attattagat ttttagaaca gttatttcaa aagtcaataa 240  
tcatttatcc ttttgggtata tttagattaa aaagaaaagg tattataaag attntacaca 300  
atcattaatc actatatgat aatttcaaag acttttataa tatttatctt anaataagtt 360  
aaaggatgat ttgtgattag atgataatat aatcag 396

<210> 29306  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29306

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attcttcctc cattattatc ttgtgcatat agtangcagg ctgattcctt ttagatctaa 120  
tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180  
tctgttgtaa gcttactatt gatcaccaca ggcttgggtc tgttctcttc caagaacata 240  
cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttccgct 300  
nttcaattct tcaaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360  
caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420  
agcttt 426

<210> 29307  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29307

agcttattat aagaaagtga agtaaaaaaac ttttaatat ggagatttgg tttggaaggt 60  
 tatcctgccc atggatagta aggatcgagc cttangcaaa tggcccccaa attgggaagg 120  
 accgttcaaa ataattcaga tctattcgaa tggtgcttat gagtttagagg agctaacccc 180  
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240  
 cgaagttaaa ataagcatag aatgagagaa atactggaaa catagaaatg gcgataacag 300  
 taaattgcca caaaagggcc tgtgtcagta ttacatcaaa agtagaatcg aaatacagaa 360  
 ttcgaaataa agatattata agtttacta atgcatga 398

<210> 29308  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 29308

gtttaagtga aaggatatga ctcttcacat ttgtttttga atttctttat tcaacggcac 60  
 tagtaattga ttacccaaac attgtaatcg actatagctt tttgaaaata attggaacgt 120  
 tgtaaatca gtttgaaaac tttttcaaac tcattttgct actggtaatc gattacaaca 180  
 atatggtaat cgattaccag agagtaaaaa ctctttggta aaagggtatg tcaaaaattc 240  
 atgtgctatg caaagtgtta gtgcttggct ctactgagtt ttaaaagaat ggctaaaatt 300  
 ctgttaaaac ataagcactt agacaatgaa tgaaagctgg agttgctgca catgatgtct 360  
 aacattatgt caaggaatca gatcgggctg cacaatgcac aatgcacgat ataatgtcat 420  
 atgaagaatt gaagctgcaa gatccacgat gtc 453

<210> 29309  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29309

agcttttctca tttattagca tctatgaata tattaggagg aattgaaaga taaaacaggc 60  
gattagaagt tctcccaccc tacaaaaaca attttcatat tcaaaagtat gggttaaagtc 120  
tgattgtaaa aatgctcaga ttagcttcaa ctaggcagac aaaanaaaaa tagaaaatac 180  
aaaaataagg tacttttact gttcatatat agacttggtg caaattaaaa tagcttgcaa 240  
aaaaaaaaaa acataaaaaa gtgcagaggg ggagaagaaa agatagaata caagtgtgtc 300  
taaggaaaca caataaccaa acattttaaac ttattcattc caatcgcaac atgaacaaaa 360  
tgtttnttct taataatgtc atctagcatt ggtatattca aag 403

<210> 29310  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29310

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atgagttcaa taatcaaatg tgataaaatt gctgagcata actataaatg ttattcaatc 120  
tatcatgtta tcaacttttag taaataatta ttctttattt tattatcata tttattattt 180  
tattaaatcg ttaattcgac aagtctttga ttaaattata ggcttggttat catgaagaga 240  
ttatgataat gagaaaaagt tattttataat ttcattctaa attgttcttg attgtaagat 300  
tattgtgaat atgatatcaa taatccggat aagttaatat atatctaag gtctttattg 360  
gataaagatc aatagatcta atttattaaa ttgcatataa cgattatgta tatgtggatg 420  
ttataattaa agcgacttaa ttgagaattc ctaat 455

<210> 29311  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29311

agcttttctac aagtttcttc acaataaacc atcatgaagc agaaaactaa caaaactacc 60  
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120  
cctgaaattt cgaagtccca ctcgtagcca cgcacttcac gaccccgaaa atgccctcct 180

ttcgcgattt ggggcagaaa tgagcaccaa aggttggagc tttgttgggg tttcaatgga 240  
 gaatgaggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaaagt 300  
 gtgggggctg agtgaagaga gagaaaagct ttttggtttt taaataaaaag gggtttctct 360  
 ttttctatta ttntatttga gcaatgccac atgtctccat 400

<210> 29312  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 29312

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 ttttaattcac atattaatta caagtatttt taaaacattt ttttttccga aacaagtctt 120  
 tcaaagggga aaaaggctca cattcatttt cttctacatc atattcaaac tcgtccaaat 180  
 aaataataaa gtaatctcgt ctcaaacaag gtcgtctaaa cttcatacaa ttaatataga 240  
 acttatatcc tagtgtcaca tcctatcata gcgttgtggt cctgtgtcct ctaccatgag 300  
 gttcttcata gtcatccacc tattcatctg tttccccgaa cacaagttca agatcatcac 360  
 aggatccaaa cacaacaaca cacagggagc gagtcatcac attcatacct aatagagaga 420  
 c 421

<210> 29313  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 29313

tcaagctatt cttgatacta gaagcttctt gaattctgct catgacacta gaaatatatc 60  
 ttgatcatga actcgtgac tgaatcttga aatcattctt tgtggatggt gtcgtcatct 120  
 taatcatcat cgaaacttca cgaatcaact tgattcatca tcatgaagct tgcttctaca 180  
 ctttaaccccc aagaccaaact accaactagc ctgagaggct atgaaagaag agccaccagt 240  
 ccctctaaga gagcccccat atccttttagt tccgtcaaag aagaataagg agcactactt 300  
 caagtgtata ttgaagatat ccaaagtgtt ggagataacc atgccatttg aggaagccgt 360  
 acagcagatg ctgctctaca ccatattcat 390

<210> 29314  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 29314

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agacaaggat gacaaagctt aagataatca agaacactca gtgaatcaga taattcagaa 60
gtcagataga atcagagaat tccgactcag aaaaagtctt agtcagaatc agatcagggt 120
aggactcaga tcagagagac tcatcagaaa gtttaaaagt tttcaaactt tgatgcacat 180
gattttgaca aacttttaca agagttctct cttagtatcg ataccaattg tgtatcatac 240
agagcaaatg tttgaaagtt tcaatgatta cacgtcatta ttcaaagtga tcgatcatgt 300
ttgta 305
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<210> 29315  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29315

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ggcggcgctt gggcgtgtga atcgatcact ggcanacgga ancaaaaact cagcttagtc 60
tgaagatgaa cgatcctatc actgattgat tatggataca tgttgctaga gctttagaag 120
agataacgtg gctcgcactt agtcactat atgaggacaa tgatcactat acattattcg 180
atcatgatcc aattcccttg agcaaaagtt ggttgccaag catactccta attattttac 240
tactcccgga ggaagttgag atcatcgacc ctgcttataa tgtatctaaa ttctcatcga 300
ctgcacagtg gtatggactt catctgccgc gagtgggaaa tccttgggtct ttgaggctat 360
gacacgtcaa caatgatttg acagctctat tcacacagac cgatactgga ccactacaag 420
tgtcggcc 428
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<210> 29316  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29316

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ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcatcactc 300  
atgagttctc tacagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360  
ctttgcaaga agctgctang gtcatgcttc at 392

<210> 29317  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29317

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attgcaggaa gaaaaaggga gagaacttga actctgagtt gtgtctcaca agactctcat 120  
tcatcaaagt tacaacaagt gttacacatg cttctattta tagactacgt agcttacttg 180  
agaagctctc ttgagaaaaa ttccttgaga agcttctttg agaatatctc cttgagaaga 240  
tagagcttag ctacacacac ccatctaaca actaagctca cctccttgag aagcttcctt 300  
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 360  
ggaagctaga gcttagctac acaccctat aatatctaag ctcaccccca tgacaaaata 420  
catgataata caaacaaggt ccctactaca aagactactc 460

<210> 29318  
<211> 364  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29318

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tggggaccat ctagagtga aactcatggt ggaagctcat actttctcac catcatagat 120  
gattttctcaa gaagagtatg gccgtatgtc ttgaaaatac aatcagaatc tttttccaaa 180

ttcagagagt ggcatactct tattgaaaat caacttggtgta caaaattaaa agttntaagg 240  
attgacaatg gcctggagtt ngtttcagag caattcaatg agttntgcag gaaagtatgt 300  
atcataaggc acaaaacagt cccctcacaca ccacagcaga atggattagc ataaagaatg 360  
aata 364

<210> 29319  
<211> 477  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29319

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gtgttcttga aagagaacaa tgcaaaacct gtggtgattt gcaatgattt atctttctaata 120  
gaagagtcta ggtgggtcga agtgctcaaa aagcacaagg cagtcattgg gtggcacatt 180  
ttggacctca agggaattag cctttcttat tgcattgcata aaattatgat ggaagctgac 240  
tataagtcgg tgagacaacc acaagaagg cataatcctt cgatgaaaaa agagggtgcac 300  
aaggaagtcc ttaaactcct agaagtaggg cttacctatc ctatcttaga cagtgccttg 360  
gtgagttcag tgcaagtggg tccaagaag ggtgggatga ctntgggtgag aaatgagaaa 420  
aatgacctca ttccaatccg aactgtcatg ggatggagaa tgtgcataga atatcgg 477

<210> 29320  
<211> 403  
<212> DNA  
<213> Glycine max  
<400> 29320

agcttgtgca ttcaatatcc tgatgatggg gttccatatg ttctcaagac tggactaata 60  
catttgcagc ccaagtttca tgggtcttgca ggtgaagatc cttataagca tcttaaggag 120  
ttccatattg tttgtttcac catgaagccc cctgatattc aagaagatca tatctttcta 180  
aaggcttttc ctcatctctt ggaaggagtg gcaaaagatt ggctatacta ccttgctccc 240  
aggtctatct tcagttggga tgaccttaag aggggtgttct tggagaaatt cttccctgca 300  
tataggacca ctgccatcag aaaagacatt tcaggcatca ggcaacttgg tggagaaaga 360



ttgtatgagt attgggaaaag attcaagaaa ttgtgtgcaa gct 403

<210> 29321  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 29321

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ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120  
tgaggaagga gatacccatc ttggccccct gctccacctc aaagatccgt ccccccata 180  
actaccccaa ccgaacatag tccgctatat cccggcttca cccacacccg taaaagaatc 240  
tgttcccttc gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300  
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaacat 360  
cgtcatccct cccaagttca aagtaccaga ctttgataag tacaaa 406

<210> 29322  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29322

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tcatttntaa ggtctaactc cttaagatga tcacccctca agtaaaaaag aataacttga 120  
ttcacgcatg tgaaagaact acgtaggctt gatttcttct ccaaaggagg gtacgtagga 180  
gcaaaagccc cgcttttgtc gacctcaaaa aattaaaaga aataaagtta ggtaacacaa 240  
tttcacaaat tctaaaaaat aggtgttgtt cctttgagac aaacgtgaga ggtgctaata 300  
ccttctctaa gcgtanatac aactcacgaa ccatagaatt tcattntgac cggttttcctt 360  
cggttttccc gacgttttcc acanataaac gttggtggcg actccgcgca tctttctctc 420  
tttgganaca caccgtgag cctcg 445

<210> 29323  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29323

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caaattcagc aaaatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120  
atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180  
gtttgtgata tttctacaca cagatataaa ggaacaatta caaatatttg ttatgttcca 240  
tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300  
ccctcacaat acaatttcaa agaaatggaa taagagaaaa acaaaacata gaacaaaata 360  
caacgtctaa atgtaaggaa atggagaaac tacgataaaa a 401

<210> 29324  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29324

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atcatcatgc tttgataaat acaaaaaaac tagggcaaat gaagatggtg agaataaggg 120  
agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180  
tcattactca gccataaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240  
atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccaccttag 300  
cacaaccaa aacaccaacc aagaaatgaa ttttgcagcg aanaagcctg tagaattcac 360  
cgcaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
cataacccca gccaaagggtc atcaacctcc atttctctga gaata 465

<210> 29325  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29325

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 tgatcatgtc ggatgtagaa aaaagatact gaagtcagat aactacttct aatggaggca 180  
 cactctatat tgaatctaaa ctagctcact ataatcaatt acacggattg acataggccg 240  
 gtagagaggt gcctagcata acattgatcg atgacagact gtgagaatct gattgctcat 300  
 acatttcctg acacacgatt gataatgcat gactctctgc ttgaatcgga caccatgtga 360  
 tagagtggag tgcattgctgc cttangcagg an 392

<210> 29326  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29326

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 aaagatgcat ttagtgcgag gcttgcactt agcgaaagga ctatttttca gaaaaaagtt 180  
 ttctaagtta ttttttagtt ctttttccaa gaaattgaaa cccttatggt aaacattcaa 240  
 agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg attaaatgca 300  
 tgaaaatcaa agataccgga aattaaact ggggtgcctn ccaggaagca cttctttaac 360  
 gtcattagct tgacactttt acctcactgg gtgatcttat gttttgggtc atactttcag 420  
 aacctcttga cctccttnca ttacct 446

<210> 29327  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29327

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 agattgttat agacggatgg agtgctacta caataagcat ataatgtgta aggcgattct 180  
 gggagggtct gaattagggc agagcatcat tacttctttg attttatctc tgttgttcca 240

ttactctatg ttattcatct agtttctgtt actgtatata tagagcacta ctctatcatt 300  
 caccnccag aacataacga ctactctatc attgccctgc tattccaatg tgaatacttc 360  
 tatcaggatc ta 372

<210> 29328  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29328

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 ggaactatat atctctaaca atttaataata tgtgcagtta aaaaaattaa tatatatggtt 180  
 aaaataattc catgaatcga actaatctaa atctttgata tattaggaac taatcatttt 240  
 aggtctcttc aattttcttc ttattttttc actactacaa aatatagact taacatcgca 300  
 tgattaacat cggtttttca aaaaatcgat gttaaaaaaa gcacagtaac atttttgtaa 360  
 ataagttgag ttgggtaaca ttgggtnttt aaaaaccgat gttaaca 407

<210> 29329  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 29329

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 tgcggaaagt gaaggactcg gacctagga aggtcttggg ggataattgg attacgaaac 120  
 gccgtggtca gatacgccag tatgctacag ggtatctcag agcctcttgg agcagggcct 180  
 tatcttggtt gaaggatgaa gggattggag ggagctccaa taatgcatca aagatggctt 240  
 tgaaggagag gttcaagagt ttcaatgctt gttttgaaga aatttacagg gttcagacag 300  
 cttggaaggt accggatgac cagcttcggg aggagctgcg gatatctata tcagaaaagg 360  
 tgattctgc ataccgctcg tttgtgggaa gattt 395

<210> 29330  
 <211> 446

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29330

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cttatcgtct atgtagagag catattagct acatttggtt ggctgcacat ctttaacaaa 180  
agtttcatgt tcatgctagt ttgctacttg gacctttttt agggctcttag taaatgtaag 240  
gagtatgctt agtgtggcta gcctgaattc gacatgacaa atcggaggat atgactctac 300  
taaaggtgcc aaatttatct atttttatct tctctggctn ttgggttggt tgagtgggtc 360  
tcatgattgc gaagtaagta tctatatctc tcccctatgt attgaaccaa gtaaaccttc 420  
acaatactgt gcgagcgtca ataagt 446

<210> 29331  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29331

agctttctac ttgatcagga gaaanncnng nnngccaaac ctggaaaact tgagctcagc 60  
accacaccat acgcggcacc cncgcgcaaa aaagaaccac ccaggactaa ccgaccgaat 120  
actatatgtg cctctcttct ccctttctcc aaagaacgaa cgactaccgc cctgaattct 180  
ctcgagtcac cttctccct tgctaagaat tcaaaacgac atagcctgag aattctgttg 240  
attcctgcat tccctaatac aaaagtgtca aaagactaac tgcct 285

<210> 29332  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 29332

actaagctta tcatcgttgc ttccacattg aaacgggtgt gctggcctat gtttttacta 60  
tagtagacgt acatgtgtga tattataaag atggaaagcc tacactaccc ttctaaatct 120  
accccaaagt aactttttta taaaaatatt cattctttat tgtaatatata ttttttaatt 180

aatagtatta caaatagttg cattgtttca ttgaacatga tatacgtcct ggacgaggat 240  
 aaatgcaatg catatatgaa tttaacctac acttattttt aagttgtcaa tcaaaaatcc 300  
 ctctttatat agctttttaga atatttatta tttcccatata aaaatatcta ttattaaaat 360  
 taaaaaacta atatctatca taatttatga tttaataaca ataataaaat atactcgcaa 420  
 tatatataca tactattttc tattactctt t 451

<210> 29333  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 29333

agcttttcag ctatttggtt actctcccta agagaatgga gccaaacaaa gcttccttgt 60  
 tgttcctcaa aagccttgaa atttcaaac atgctttaag acaggtgaaa tgaagggcag 120  
 ccatgattca gaagtgaat agccacaaag gaatcagatt ccaacatgaa ttgcttgaat 180  
 cttctactcc gtgcaatttc aattccaagc atgatagcct cgagttctgc agttacaact 240  
 aaacaatagc atacatcaat aacaaaagag aagttcgctt tgccattata atccttgaga 300  
 actccaccaa caatggcctt cttcgtgtct ctattgattg aaccattaat attgagtttg 360  
 aactagccat ttgaaggctt gctccaacta atgctttt 398

<210> 29334  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<400> 29334

ttataagagc gggctctgtga gacaaaggtc aagtggtcgc aatatgcat tatgatgttc 60  
 cgagtacatt ggatctggta cgaccatgcc ctcctgattt ccagctggga aataggcgag 120  
 tggaggaacg ctacgcaacg agcataatgt aaacctgtac ggt 163

<210> 29335  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29335

taagctttat gatgttatta aaggctttgc acctacctct ggcagtaaca gtgacaaaga 60

tgatcataag tacgtttaca actagacatc aaattttact tgagattnta tagtttctga 120

tacttggatc acttgagcat aacagtgggg agcaattgat ggaagatgaa tctcanattg 180

ctccaaggag aaggaagaaa cttgttcttg atggtgattc ggaaagacaa atcacagatc 240

tccatgagaa gtatgtttga ccagatcana ctttngtctg aactntggag catgatttan 300

attagagcct tgtcacacag aaattcagtc tttgttcttt tattcttctt acatcatcgg 360

tacatacatt ct 372

<210> 29336

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29336

cgccgggatg agctgtgatg atcattcana cggcccaa at ctagctgcta tcggcatcac 60

cttttggggg tttttttttt ggtagcttcc aattttggtt aattttggcct tgccccgacc 120

ctttagaacc ggatattgat gtcctgtttt gacgaacaat gtacttaatc cctcactgta 180

actctattaa cattgatttt gatgacgtgg ttaacgcaga cacatggcgg ccccgtagacc 240

ttgatgacta atctgagcat atttctctgg aacaaggatc taaattcatt tttactacct 300

gcgtgctgcg ttcattaggg ccgattttac ccctcatatt ggaagagcaa gagcagcttt 360

tcattactga acattatgca aaccatttta gcttcatggc tatgatgttt gacaagaatc 420

atgcttatac ggtggaactt gtcactttat cacaagaatg tatcaggctt tctn 474

<210> 29337

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29337

agctttctaa agttntctgg ttntctaaac cttgaaaact tgtgctattc atcttttcat 60

tctcttctcc ctttgccaaa aagaattcgc caaggactaa ccgcctgaat tctttttgtg 120

tctctcttct cccttttcca aaagaacgaa ggactaaccg cctgaattct tttgtgtctc 180  
 ccttctccct tgtcaaagaa ttcaaaacga catagtctga gaattctttt gattcttccc 240  
 attccctaata acaaaagtgt tcaaaggact aactgcctga gaattctttt gtatcccat 300  
 tcacaaagta tcaaagggtt aacagcctga gatctttgtc tcaacacatt ggagggtaca 360  
 tcctttgtgg tacaagtaga gggtagatct a 391

<210> 29338  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 29338

ttgatagtga ggaatcaatg ggtccagata ggttgcata tgacatactc agaacttcaa 60  
 gtttgtgcaa tgaagatatg gcttggcacc actcgtttcc aattgcagat accttgacac 120  
 catctagata caattctgcc agttttgtga ggttttgcaa gagtgtacct atatttggct 180  
 tctcaagttt tagagtatgt tgcgaggtaa atgatgtaga caagtcaaga gtagatagct 240  
 tggtagatg agcaatctca attggaattt gcccttgaaa cccagcattt gacaagttca 300  
 aatacctcaa attcttttagc aagccaaact ttgaaggaat catcgaagaa tggatgtcat 360  
 tgtgtgccaa attcaaactt tgcaaatatt gtaggttgaa gagacttgaa ttgtccaagc 420  
 cttcactgat aaattcttca ctcaagt 447

<210> 29339  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29339

ggtagtgcca cgcccatccg cgattataga taaaaacaac ttaaccaaac attntgttca 60  
 caaagaacta cgtaggctctg atttccttat cgcaattaag gaatacgtan gagcaagggg 120  
 nataccctcg tcgaccgcaa aaagataaaa aatatataa aggaataaag acgtaaaagg 180  
 gaacctaaaa attgaagtca tgtttgcaca tttaaagggt gttgtctcct gtgacggacg 240  
 cgtgggggtgc taataccttc cccgtgcgta aatacaactc ccaaaccctt cacttaaagt 300  
 tcgtagatca cgtcttttac ggtttttctg acgttntcct canataaatg ttggtggcga 360



ctccgcgcgt attcctttct tggaacacac acccgcgagt cacgtgtc

408

<210> 29340  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29340

tgcctaatta acctgaaatt gagaganaat gattattaaa cacattttat ggaagtacta 60  
agtatttatt acctatactt aatagaaaat acttataaca ctacaaaata accataaatt 120  
ggaagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt attcaccgac 180  
taacaatatt caagagatta gaaaatactt cagcaaaatc aaccacagtc caaaatctgc 240  
aaacggagat taataatttg aaaaaggaag ttaatgaagg aataactacc aaggaacacc 300  
cttcattaga gcgttattcc ccccttcagat atccaaggaa ggaataacta ccattaactt 360  
aggaagaaaa attacattct atttttctac taaacctatt tcaagaaata taaatttcac 420  
agaanagaan atcaaccaa ttaatttctt anaagatgaa gtc 463

<210> 29341  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29341

agcttcttga tgttgtttca agattgattc aagttggttt gatgataaca agagatgatg 60  
accaaagcc caatagaatg atttcaagaa tgagtcaaca attcaagaat caagagaagt 120  
taattattac aagattgagt caacaattca agaatacaaga gaagtttgat ttcaagattc 180  
aagaaaagat gaattcaagt ttcaagagaa gaaatcaaga agacttcaca agggaagtat 240  
tgaaaagatt tttcaaaaaa caaacatagc acagttttgt tttttaaaag agtttttctc 300  
anaattttct aagttaccag agttttttact ctctggtaat cgtttaccag tttcctgtaa 360  
tcgattacca gtgacanaag ttgttttcaa aagctttcaa ct 402

<210> 29342  
<211> 457

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29342

gtatcaacca taatcgtgat catttccctc tcagtcgtag gtgggatgac ttgngctgct 60  
aggtctctcc acctttgagc atgttccttg atggactcat gtcccatatt gctcatgctc 120  
tgaagttggt tccgatcggg agccatatct gtgttgatt ggtactgtcg caacctaccc 180  
ttcggcggga gggcgacgcg agactcgcg gatgcttggt ccacgaaagg aatacgtgcg 240  
gagtcgccac caacgtttat ttgaggaaaa cgtcggaaaa accggaag acgcgatcta 300  
cgaactttnt agtgaaagg tggggagttg tatttacgca cggngaagg attagcacc 360  
cacacgcccg tccaaggga cgacagcctt taatcgaatg tgcaaactg actnntgatt 420  
ttatgttccc ttntatgttc ttatatcctt tataccc 457

<210> 29343  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29343

agcttgtctc agcgtttatg cgatacggag accaactatg tagctatcat cgccaagtac 60  
caagaagagt taggtctagc cacggccac gagcatagaa tcgcggatga gtatgctcaa 120  
gtgtatgcgg aaaaagaggc tagaggaagg gtgatcgact cttacacca agaggcaacc 180  
atgtggatgg atcggtttgc tcttactttg aacgggagtc aagaacttcc ccgattgtta 240  
gccaaggcca aggcgatggc agacacctac tccgccccg aagagattca tgggcttctc 300  
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360  
tgtatggtct ctacagcctt gactagatac gacttcctt 399

<210> 29344  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29344

tgtgcanatc anatactcc tacatttcat ctctagcatg cattntcttt ctttactcac 60

tcctcacgtt tggttnttta gggaaaaaca ccataactaa acgcgcccga agggatccct 120  
atcgaccag atccaaatct agaatgatgg gtgatcaaga ggagacgcag gaacagatga 180  
aagccgacat gtcggctctg aaagaacaaa tggcctccat gatggaggcc atgttaagta 240  
tgaagcagct catagagaag aacgcggcca ccgcccacc tgccagttcg gctgccgaag 300  
cagacccgac tctcttgaa ctacgcacca tctccctca nacatagtag gacggngaag 360  
ggacacactg gggcacgatg gcagtcctca cctgggatac aaccgagcgg cttaccctta 420  
tggatngccg cccaactatt caccaccgt cttgcaagaa ga 462

<210> 29345  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29345

agcttttctt gaccttgat ttacaggga aaaggctttg acttcagcca gtgatcataa 60  
aattgatgac gatgatgata acttagatga gtttcttgac gggatgtttc tgtgatcttg 120  
gctgatttga ttgccatacc tgaaaagtgc ttccaggcgc caaagctggg caaatagaaa 180  
cggttaggca gtggtggaga caagtgggtg atctgtaggt agatgtctaa aatataggaa 240  
acatggtgac caaatggttc ttgacaaaat tattcaccct gttgtatcct tcaaaattat 300  
gtccatttat gcagactata acagttcagc atgctagtgt agtttgtatt atgtacagtt 360  
tgtatagtct tttcatctgc caataatgaa nattgcgtag ctg 403

<210> 29346  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29346

tcggcagaaa cgatcacgtg gatcaaggca caatacaatc accatatana aatatttata 60  
caatcatcac agatccaaca aanaggagca acaccagat cacaaaaacc acccattagt 120  
ccaaatttca aaactttcca caacaaaatt aagaaacacc aaatggggta gcaccagat 180  
catcatccac aaacagatat agaaacggag aanaacagag gaatgagagt agaanataac 240

ttacgaatcg gcaagcgatg aagcgaagaa gaaggagaaa acacgaagac aagaaagaga 300  
naattttcag acacagaaga aatggaaaat ggtagttctc agatttagat ttggactcta 360  
cacactntct ctgtatatat atagacgcgg ttnttatgca tgaattatnt gatcaactct 420  
gagttcgaga aagctaaggg gagccacagg atcatatcaa gtga 464

<210> 29347  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 29347

agcttggtga gttgattctc gtatcggttt aattgattac agttgtttca taatcgatta 60  
cactgttatt tgagacaatg attgatttat tcaggagtct ttcttttaat cgattaccaa 120  
gtggattaat cgattacttc tctctcattt agttgttcaa aagtgaacaa gaacacttta 180  
attgattact tagagcatct aatttacttt gtagatttaa tcgattatag gtgggtataa 240  
atgttttctc tataaataac catcttgtgt tccttccaaa acatatcaaa agaatactca 300  
atatcttgaa aataacccat tagcctctta atgagaaaga tctcaagttg tcattagtga 360  
aaagagaaaa aaagaaaaaa gctgtataat tactcataac ttc 403

<210> 29348  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29348

caccttcttg ctaagccaat ctgctggttt atcgagcatc tgctaattgc aacactcatg 60  
tgctatgcgc gaggaagaat ccacaagaag atgagctnta caggttcgct aagcgccctg 120  
cttcagttca tccgctaagc gagaaaggcg cgctaagaca aaaatcacta acgtgggcta 180  
agcgggtccat aagtgcgcta agcacacgaa cacgaacaag gctacctatt taagcctaaa 240  
ataagatttt gtgaacaaag tttggactgc gattcagagc tttgcatatc taggggttct 300  
ggagagagaa aggtccaagt tccagagagt tttgaaagat tctgctgtgt gaagatttgc 360  
agagaccaga gcttgaagca agagccngt taagagctct agatgagtct gtgagtgatt 420

gtgagatcct

430

<210> 29349  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 29349

ctttttcaac attgatgcaa ggggcatga tgataacaat agaggaagac aaaagccct 60  
actgaatgat ttcttgattg gggcaacagt ggaggacca gcattggtca tatattgcgc 120  
caccgcttca acatctcaag cctcctgaga agttagattc cgggattgaa gcatagatga 180  
ggcgggggttc aagagaagaa atcattagga cttctctggg gaagtatcga tgcgatttat 240  
cacaaaacc 249

<210> 29350  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 29350

gagaatgata acgtatgcat acatgatctt gctgatgtca ctacaagaat caccacaggc 60  
tggttgagct tgatgaataa tacactattg ttactaccaa caaggactcg attccaacga 120  
cttcaagatc caccatatct cacaatgctt gggttcaagc catcacaggc ccatgtctgc 180  
catcacgat gagttattag tgaagtgacg attacgcatg aatatgtact caagaacacc 240  
atactttgaa ccgtaagaac tcttatagat attgaaggat cgcattctgt accataaact 300  
taggaagaga aatcacatac tctaattctg ctatcc 336

<210> 29351  
<211> 237  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29351

atcaagaacc gatgctncca ctacagagct cactctccag actagttcca ggcactaagg 60  
attgatatca caatgagagt tgctacttgc acttgatatg acccatccga gtctattatt 120  
caataactaa ataccatgtg agagcgacat accttacact gtttaattggc gttacaaccg 180

aagacatcat tatgcttttc caagcttata gcaggccga catcctcaac atcctta 237

<210> 29352  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29352

tgtcacatgg aataatgtac atacaattca naattntgta aatctcttaa atcatcattg 60  
taattaattt caatatcaat taagctttga taaagcacc aaacacaaaa cttactatag 120  
tctgagttac aaatttttag ggtgttacat acagcctaga aaggtaaact tttgagaagg 180  
ccaggtaagt tgcccttgtc aattttgtgg tgggtgtatat tcccacttac acaatgcaat 240  
tgatgggtgc cacgacaaat ttgtgataag taggatatgt tgggcattag tttatttgga 300  
gtggaaatct agaggggagc ctccatctgg ttaagtggga ttctattatt cagaagaaga 360  
ggtctagggg ttcgagtagc tagacttcat aatattgctt tgggttgaaa gcttatttgg 420  
gatattctcc atagccctaa catgc 445

<210> 29353  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29353

agctttcatg atttacattc tcccatntc tcagacaaat tcttcttgac atcatcaaaa 60  
cctgcatgat ttatagcctt ttgcctataa ataggcatcc aaggggtggt ttaaagggtc 120  
ccaagggtca gaagtggaga gaattgagag aagagataaa gaagaagaaa aaagaagagg 180  
aaacgaagcc gatgcgtac cgaatcgga cgcgaatcat tccctacgtc gtttcttggt 240  
cggtgttctt tgcaccagtc ggtagttct attttttaggt attgaatgtg atctatgtac 300  
ccttaggggt ccccttggtt attatgtaca cattcatctt ttccatctat catcgacaat 360  
ctctttttct aatcttaacc aatcactagc tgcagtaa at tg 402

<210> 29354  
<211> 442

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29354

tccccgcctt caaggtegca tctctattcc tagacttggn ttgcttacac cacagcttcc 60  
ctcgaagcat catttctgat agagatcctg tgttcttaag ctccttctag cgagagcttt 120  
tttgactcag tggcaccocat ttacgtatga gcacgatgta tcaccacacag accaacggcc 180  
agatcgaagt gatggaccat gtgttagaac aatacctacg ttcatttggt cattcccaac 240  
cggcaagttg gttccgttac ctacgcttag cagaatagtc gtataatact tccctttatt 300  
ccagttcagg ctntactccg ttcgaggcaa tatacggcaa gccaccacca gtgttgcccc 360  
attatcttcc tggaatgacc aacaacgagg cggttgaatc actggtaaag ctctgataga 420  
agatccatgc aaagcttcaa tg 442

<210> 29355  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29355

agctttatca aatattagag agggatctcc aagtaattcc ctcattatct ctcatgttct 60  
tccctctttt tccctttcct ctcttcttct tctcctacgt tcttcttcta tttttatttt 120  
ttttaagttc gtagcttcgt cgtttgtctc ggtggtgaga tctatggctg tcaatgagat 180  
ctgtacaagt tgatatcgtc attttttctt ggtgctttat tttgtttcat gatttttttc 240  
gcattccatc atccttttct tctttctctt ccttcttttt ccattttccg atgaagcctc 300  
gtgcggtgct gccatggttt aattnttatg ttgtanataa gtcaacatac tcatacaaaa 360  
taattcgata taacatgaaa taatac 386

<210> 29356  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29356

actaagcttg gcaatgccct accaggcctn ttatTTTTat tccctttatg gggccttttg 60  
gaactaattc tgacatggtg ttctTTTTta cgttatttgc atgcattttt catgcaaacc 120  
gccattgcca ataacgattt ggctgcagca cgacatgtgt ctgggcaaac cgccaacact 180  
gtgggcgact tcatgtggaa gggcatcttg ccacttgcac tggcgagtgc atcactgctg 240  
ctgaaaccgc aggtttgact ggcgagtttc ggaaatggca ggcctagggg gcaggacgtg 300  
cangtgcaag ttgctTTTTg acttcttggg cttaagggga gttgccactt gctctggcaa 360  
cttaagtaaa gggaaatcgc ctatacgttt ggc 393

<210> 29357  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29357

agctttgtgt aatcgattac actgattttg taatcgatta ccagtgatca tttctgaaca 60  
aatcaaaaga tgtaactctt caaatagttt ttgacttttt caaattgggt ttaagttttt 120  
ctaaaagtca taactcttct aatgattctc ttgatcaggc gtgaagagtc tataaaagca 180  
agactttggt ttgcatttca catctatcca atcaatcaat ctatacatca atctttttcca 240  
atttattctt tacacaagca agttttccac attgctttct gagtctctnt gaacttcttc 300  
ttctttcttc ttttgccaaa agctttccaa agttttctgg ttttcgaaac cttgaaaact 360  
tgtgttattc atcctttnta ttctc 385

<210> 29358  
<211> 425  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29358

tgcacaanaa tgatngatc aaccaagatc ttagatctat atgtttccaa gttcacagg 60  
atgacaaaaa gaaatttggg accaagactg agagttttgc acgaaaatgg taaggaaaca 120  
agaagagaat gaagattaag agtctcttat caaagctttg agggaagaag ccccaaggac 180  
aattgtatga agcttgggag aagaagaaga agaagacaat ggactcctct cctcccttg 240



aagaactcat gaacaacaat ggagaatgaa gggtccaagt ttgatatttt tggaggagtg 300  
aagagataag gctntaaggc ttgggtccaaa tgaaacttgg ttaggcttaa tgttgataag 360  
atcaaattga cacaatgaat gaccatctga tagccatggg ggaagtgcta aatgcggcca 420  
tatat 425

<210> 29359  
<211> 483  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29359

cgactccggg ggttgagcgt tganncttga tgcctttgan atcccggcga atcanctcgg 60  
accccgggat cctatacagn cgctttgcng catttttagct ttaataaaaac cttccgaagg 120  
gccagcta atctatctgt tcgaaatggc cttcttggct actatcggaa acaccagcgg 180  
tggtgcggtg cctgtgtgtc tccatttcta ttaccgctaa attaataattt aaaaattctc 240  
tgtctaagcc ttaatgggta tattgattat agcctagcta tcctccaaca acatgtgcat 300  
tcatatgaat tatttcttta ttcctctgca tattagcgac catgtggcaa gtggaaaact 360  
aataaagatg aacatgtgtt cctatacata cattatagta agggatacct tcatctctct 420  
tcccttctaa aaattagctt cgaccatatt aagatatttg aagaaaaaga taatgaagat 480  
ccn 483

<210> 29360  
<211> 437  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29360

ctggcaacat agctatgctg gagagctttg tagcncattt tcttatcacg gtcgggtcca 60  
cttggcaaga aacaattcgt ttgtaaaatc tctcaagcac acaactgact tatgtctcag 120  
ttacaaattt tgatggcgta actcttttct ggtaagaggg atcatatatt cacactccca 180  
cattgacctt ggatatcaag tggttgccgt aagctcagca tacatacctt tatcggtggg 240  
tgccgaggat attgtgtgca tattccgagt ggtggtgact aagaataatg agatggaaaag 300

caagatgagc acctgcttta gtaatgggtgc atttactatg caatcactat gccaggtgac 360  
gagtatgtca gacaaataat ttcgattggc tgtaagctaa ctgggatata atgggtcacg 420  
cacgtgcaca tgcaact 437

<210> 29361  
<211> 373  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29361

tcaagcttta tcaaaacaat tatctaata ttccaatcca ctcaaatacat acaattgctc 60  
attcaaata ttctcaaaca ctcatctcat acaaaacaat ccactgcata tcattttcaa 120  
ccaattcact gttcaaaca gctttttgta caagcaaaca actcanagta ctgaaattta 180  
aataacttgg aatttaaaga actgaaacat aaaaactaaa atttaaata ttgaacataa 240  
atcataaaat aactgaaaat aaactaaaat gttcaaaata gaagggctca ggaggagtga 300  
gctcatcctc cccctttact gctactgctg gctcctctgg ttcaagctcc tgggctgcag 360  
aagccccacc cct 373

<210> 29362  
<211> 363  
<212> DNA  
<213> Glycine max  
  
<400> 29362

tatccggggc tccatcagca gggcttttat atagaaatat ttcatgccta cgcaggcgca 60  
cggtcaggca ctgcagaagc acgatgagga ctaacagtag ccagctgtag gtgcactatc 120  
tgccccctca caagagacag tgggcctggg gttcatcttc gctcacctgt ggagggttaga 180  
gcttcaaata cacaggtaca tgcagcatgt gactacccaa caggcagcta atcacagggt 240  
catgtgaagc taaacacgac cttctatcgg tacactatgc actagcagag tcagaacacc 300  
agtcctttcc tgtggactac ccacgagcaa ttccggagcca catttgctg gctgaacat 360  
gcg 363

<210> 29363  
<211> 386

<212> DNA  
<213> Glycine max

<400> 29363

agctttatgc catgctacaa tggttctccc tgacatctcc ggggcagctc cgaggatttc 60  
ttgggtctaata tggattctat cgacaatttg tccagaatta tgcccacatc gcagagccac 120  
tcactcgcct attgcgaaaa gaacaatttg agtgggtctcc cgaggcacaa ttagccttcg 180  
acgatttgaa aatagccatg acaaccactc ctgtcctctc cctcccagac ttcacgattc 240  
cctttgtagt ggaaaccgat gcctcagga caggcatggg tgtcattttg atgcagcgca 300  
gccatccaat tgctacttc agtaagcaat tctatcccaa attgcttctg tcttctacat 360  
acatctgcga gttgcacgcc ataacc 386

<210> 29364  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 29364

gagtaacgca accgggttcgg ttactcgctt cgctccaacg cgattgtata gaaacggcat 60  
acgatcaacg aggtcgtagg cactccggct ccgatcgct ctcagagatc gcagttcgtg 120  
atcgctaacg ttcagatccg cacgcttttg cacttctacg tgcttttcct tcggcggcctt 180  
tggtctctct gtctgcgcaa tcgggtgggt ctcaacctcc ggcggcggca ccgccgcctt 240  
cggagcctcc tcctttgggt tttcttcttc ttttgatgct tctttagggt tattctcctc 300  
ttctttcttt tctcgtctt gcgtttcttc tgcttatct tctttcttct ctcttcttg 360  
cgaattctcc ggcagcttct cctccgatgc cgggtggtgct gactctgctc tctctctcc 420  
gggcgtctct ggtctcgggt gatcc 445

<210> 29365  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 29365

agcttttatc aaactgttcc tagtttctac atataagaag aacttatacc ctcttctcaa 60  
acaagagatt caacagaatc atagagaact agcattttta acttcaggag cacctataag 120

taagtgaat cttcttgttc tcttggcatt gctttattgt ttcttatagc agtaatgagg 180  
agggtaatat agcaccatgg ctaaataagt aaatgatatt taaatgcatg ttcggtaggt 240  
tctgagaacc aatggaccac tagctggtgg gagcaattca tggttcttct taagaggggt 300  
ttaatggaaa cgaggcatga atcttattcg agattaatga ttctccaagt cttgtctgtc 360  
tcaattctct caggacttct gcggtggcat tctgatccct cacatata 408

<210> 29366  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29366

tatgcctctc tctctctctc tctctctctc actngagccc tacttatgca tataattgtc 60  
ctattctcct acctcatatt cttacttgag ggtcacagtc ctctattttg ccagtccccc 120  
cttcctatca atggtatctt tctaaaccga cgtgtgaagt ctgagacccc atttcatcca 180  
catctaccct gacatgtcac ggatctggat tttggcaaga acatgatttg tgccaatatt 240  
taatgggctt aacttcttta actagaatga gcaagtccaa tttcaccttg ctgtatggat 300  
cttaatcttg ctatattgga agaaaaacct gcagctatta ctgattctaa gtgcaatgat 360  
gagaaagccc attatagagc ttgtgaaaga tttaacagac tcaacctaat gcttatgaga 420  
atgac 425

<210> 29367  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29367

agcttttatt ntgttatgat ttttatgttg ttaggctagt tattagaatg tatgttggtta 60  
ggggtttact ttcgcacgta atgtagggtta ttttgctgtg attntattag gttttgagac 120  
ctaataaggg cctatggttg ggggctgaaa accccaagtt ttttggaaaa tttgatatgc 180  
ttgctaagcg cgcttgtgca ctaagcgagt tcatcaattt tggtgaattt ctgggtttcc 240  
agatgaactc gttaagccgg ccttgtccca ctaagcgtgt tcatcatttt tgattgaatt 300

tatgaatggt tgcataaact cgtatagcca ctacactttg ggcttagcga gattttaaat 360  
ttccagtttt tattttaact gtcctatgaa ctgccttagc c 401

<210> 29368  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29368

ntgaacaata tacttggcct tcattttaact gtctctgggc ttggctgnca cgctcattaa 60  
agtactttcg acacctactg tacgttgatt tgaccaaggt tgttatggga atgttgcgac 120  
aatccttcaa aaccttattg atacattctg agaggttggg tgtcatgtgg ccatatcgac 180  
gtccttctct atcataagtc atcgctccatt nttcctttga aatgcatca atccatgttg 240  
ctatggctgg acttagttca cgaaatTTTT ctaaatTTTg ataaaaaaaa tgtgcttgca 300  
aggagtgtag gatgcataaa attagttatc aataaccaat ttaagtatat aggggaagtt 360  
aataaacgtg accatcaaat atganatctt acccaacttc ttcaacattt ctt 413

<210> 29369  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29369

agctttctga atgattaatc gtgaaaccat ttcaaaactt caaacaagat tcacccatat 60  
tgtgaatcac ttgcttgatc ttggaaaacc gtttgaagat gatgagctaa acatcaagat 120  
tctcaattgt cttacaagaa ctttggaaacc aaagatcaca gcgaccaagg aatccaagga 180  
cttaacatca atgtcgatgg aagatctctt cggaaaattg cttgtgtatg aacatggggt 240  
gattcaacaa tctcatgtag aagaaacata aaataaaaga aaaggaattg cactcaaggt 300  
tagttcttca aaggaagatt gcaaagaaag ctctagtgat gacgaagatg tagagaattt 360  
aagcttgatg gtaaagaagt ttaggaaatt tctcanacaa t 401

<210> 29370  
<211> 406

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29370

tcatgatgaa acaataatga ttcanagatg ttttgatgat aacatttgtg atgacattaa 60  
gctcanaggt caatcaaaga atgagttcaa gatgttcaag atagaatcaa gaaagaatga 120  
gttcaagatg ttcaagatag aatcaggaac acttcaagat tcaaggatca accttccaag 180  
aatcaagatc aagattcaag actcaagatt caagaatcaa gagaagactt aatcaagatt 240  
caagattcaa gaatcaagag aagacttaat caagataagt atgaaaaggt tttttcaaaa 300  
gctgagtagc acatggatgtt ttctcacaac atgtttacca atgagttttt actctctggt 360  
aatcgattac cagattgttg taatcgatta ccagtagcaa aatgaa 406

<210> 29371  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29371

agctttcaac aaatgtcttc acaaataatc atcacacagc aganacctag caagactact 60  
catcatatct ccccaaaacc ccataccac gaaatttaag agagaaagaa gtccatccaa 120  
acctgaaatt tcgaaatccc actcgtagcc acgcacttca cgactccaaa aatgctctcc 180  
tttcgcgatt tggagcagaa atgatggcca aagggttgag ctttggtggg gtttcaatgg 240  
agaatggagg agaaggaaaa agcaacgtga ggaagaggga gagagagagc tgttctgaaa 300  
ttgggctgag tgaagagaga gaggggttgc ttttgggttt taataaaaagg gttttctctn 360  
tttctattat tntatttaag caatgccaca t 391

<210> 29372  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29372

taaggtaacc ttttggctct ccacactcat ttctaagtta tcatttccca tgtccaaaac 60

acatttttgcg gtaagcatga atggtcggcc caatatcaag ggaatatcag aatcctcgtc 120  
tatgtccatt atcacaaaat ccatcggaag ggtgaattgg cgaaccttaa ccaagacatc 180  
ttcaactaca ccatatggtc atgtaatgga ggggtctact agttgaagag tcattatagt 240  
gggagctatc ctcggttct caattctccg acacatagaa agaggcataa aattgatgct 300  
cgccaccaga tcaatgagag ctttaccac tgacacagtc ccaataaagc atgggatgat 360  
cacacttct gngtctttga acttctgtgg tagaattcta tggatcaca aactacaatt 420  
tcctttcacc ataatgctct cattg 445

<210> 29373  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 29373

tttgaagctt ttttcaagac ttagaaatca aagatattcg agatggatga tcaagacagg 60  
ctctagagtc ttaagaagag tatatttaat aggaagagaa ttccaattga agtagcataa 120  
gctttggcca ataaatttaa gttaaaaagg ctttttcaag aaatttactc tttggtaatc 180  
gattaccaa ggatgtaatc gattaccagt ggccaaaact gatttacaac agctattaaa 240  
atttgaattc aaaatttgca ctgtgtaatc gattacacat atatggtaat cgattaccag 300  
cagttattaa gacgtttaat tcataatttt aagcttggaa tcgattacac aaatactgga 360  
atcgatacca g 371

<210> 29374  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29374

tgcccagaga aggagtccat ggaggacatg ctttcttctc caaattactg gaaagcggnt 60  
tctaatact cctctgccc ttccacataa ggcatagagg atgggaagct caccaagatg 120  
tcttctctgc ctgatacgt gaccagatgc ccttacacta tgaatctcaa cttttggcgg 180  
agtgttgagg gaacaactcc taatgagtgg atccacgggc gcccacacag acagctgtag 240  
ggaggggttaa tatccattat ttggaaagta acttgacagg tgtgagggcc tatctgtact 300

gcgagatcga tctctcccct aacctctcgg cggtgcccgt cgaaggcacg aaccaccgtt 360  
gaactcggct ttaagtggga ggcattgaat ggtaatttct ccaaagtgcct cttacgcatc 420  
acgtttaaac tggaaccatt atcgatga 448

<210> 29375  
<211> 387  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29375

agctttgtnt aatttttata aagagttaaa attaagttca gaagtgagtt atgaacaaag 60  
ttaatattta taattaacta attattaaaa ctacatcatt cagaaaatat ttctcaaaaa 120  
ttataaacta caaaaggtag tttaatcagt gtcactatca ttccaattct tttgtcttct 180  
aattacaatt tctcatacta tgtcaaaacg tctataataa aaggagactt catctccatg 240  
atcaaagtca ctttctgcaa gaaaatcata ccattgggtga gcaatggctt taggagcaat 300  
tccagggctg agagtctcaa gagggcattg cgatggacgg ctaaatcgtc ttaatactat 360  
catgtgatgg ccacaagcat taagaga 387

<210> 29376  
<211> 444  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29376

actaagcttc ttaagaaatt ctaaagaact agagctttgc tcacatatct tctattagct 60  
aagctcacct cttgagatg agaagctaga acttagctac acaccctat aatagctaag 120  
ctcaaccnca tgacaaaaaa catgaaaata caaaaaaaag gtccttacta caaagactac 180  
tcaaaatgcc ccgaaataca aggctaaaac cctatactac tagaatggcc aaaatacaag 240  
gccccaaacga aggaaaaacc tatttctaata tttaaaaga taagcaggct catacttagc 300  
ccatgggatc gaaatctacc ctgaggcaca tgagaaccct agggcctacc cttggatctc 360  
tagcccaata tacttggagt cttctaccca attcccttgc gggataggat tgcatacaca 420  
cacattcatc ataccaccta tcat 444



<210> 29377  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29377

agcttgtccg aacaattgga gcatgacgag tcttcttgaa gaagcaaata tcccgtgga 60  
 aacctaccta aagcgaaatg gccttagtag cttgatatca gagcagcaaa caaattcagc 120  
 ttcaaattgtg caagcacaga caaccaatga tagtgaggga aaacacaatg aggattgtgg 180  
 aaccgctttg gttattcatg agaggggaaag cagtcctgaa gagaacagtg ggcaagacag 240  
 agagcaaaac aattcactct catgaaatct tgccagttat attataattg ttttttcctt 300  
 tgttttaact caaaaatcat tttaacaaga tccttgcata aattataaaa ttataggagg 360  
 ttcattagga tggctatatt nttttttct 389

<210> 29378  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29378

tgtcagaact tgtntaaca naaacaaga aatttcttga tcaacttagt agcctcatal 60  
 ttattttttca ttaaataata ccatgtaaac ctagaactat catcaacaat agtcaaaaag 120  
 taatgttttc catcatgagt agcatgttga tatgggcccc acgtgtctac atgtatgaga 180  
 tcaaattggg actcaaaata atgggttattt gaaataaaaag agagccttct anatatggac 240  
 aggggggcaga tcatgcaatc tttagaacta tgagatgtca aatgcaatga atttttattt 300  
 gcaaaaagtt tcaaaatctt gtcagatata tgtcccaaata gggaatgcca caaagattgt 360  
 tcaactaaga cattacaact tgtaactata ttattancaa ttgaagaatg tgaattcaca 420  
 a 421

<210> 29379  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29379

agcttggttta aattatgatg gattaaaata atatagcatt gccaggacta atgatattac 60  
 aagacagact gaaaaaatgc ctattgttct gtttcatgat aaatgagcag cagcagctaa 120  
 tttataacta gaggagggat caacttacac caagagtaac tcttctagtg aaaattttca 180  
 taccaatttg gataaagcaa ttcaactatt atctaagtga aaattttctt ttaataaagt 240  
 gtcgttactt ctgtgtccca tgaattgagt taaaggccac ccactcttag cagagtacaa 300  
 agaattctca tacttgaatt agcacaagcg cataatagca ttggatggaa cccttcaatt 360  
 ntattttaagc aatgattttt aatccattaa taagca 396

<210> 29380  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29380

tggttaccct ttacctttat atagcttcta acatcttaag gcactgtagc ttcagtcata 60  
 tgtagnggaa tgtcatgaac aacagctgag aaaggctgat ggcctcgctt catttgagat 120  
 acatggaaaag catcaagtat tttggctaca gccgtggccg gtaaggggaat ttttgaagca 180  
 cccggccaaa tcttatctat gagacaatga ttntatagga accatagaat cttgggtggt 240  
 tactgtgata tgcatacatg gttgtagttt catatacacc acccaatcat ccacttgaaa 300  
 cttctgtgat attogattat tggatattgt tagcttggtc caacattcta ttntgagctt 360  
 ctgtcaaagtg aaggtagaac gtgaaggggtg aaaacttgat ccaggtggtt ttacttgtga 420  
 agt 423

<210> 29381  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 29381

tcaagctttt attttgctat tgaagaaaat aaatttaa atgcaatgat aaaataatga 60  
 aaacaaattc agcaaatca tgtttggtg caaaaagtaa aaacaaaaag aagtttaatc 120

cacatgtggtt gaagcaaagg aactacataa gatttataaa agatattcgc atattcaagt 180  
 gtcgtttgtg atattttctac acacagatat aaaggaacaa ttacaaatat ttgttatgtt 240  
 ccatgcttca atatttgatt agatacataa tagtatcaat cggtagagtt taagcttgaa 300  
 ctaccctcac aatacaattt caaagaaatg gaataagaga aaaacaaaac atagaacaaa 360  
 atacaacgtc taaatgtaag gaaatggaga aacta 395

<210> 29382  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29382

ttgctgattt agtntntcgcc gatgaattga tcgaagtggg tctataaata cgcaaactctg 60  
 atcatcatgc tttgataaat acaaaaaaac tagggcaaat gaagatgggtg agaataacgg 120  
 agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180  
 tcattactca gccataaaca aaccttctcc ttaccaccca cccagttatc cataaaggcc 240  
 atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300  
 caciaaacag aacaccaacc aagaaatgaa tnttgcagcg aaaaagcctg tagaattcac 360  
 ccgcaattcg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
 cataacccca g 431

<210> 29383  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29383

tcaagctttc ttgtgaagct tctatggagg ttggatcttt gagcttcaat gaggtccttc 60  
 aatgctaatt ttccaccatg gagatgcagc ggaagataaa ggagaaaagg tgagaggagg 120  
 cgccatccac taggaaataa gccatggaag aagaagcttc accactaaga gagtgccttg 180  
 gataaaaagc ttagagagga agcttcaatg gaggaaaaga aagagagaga gaggggaggg 240  
 gagcataaaa ttgaaggagg aaaagagaga gagaagttga actttgaaat gtgtctcaca 300

agactctcat tcatcaaagt tacaacaagt gttacacatg cttctatnta tagcctangt 360  
agcttccttg agaagcttct ttcata 386

<210> 29384  
<211> 445  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29384

tgcttgtggg gcttctatgg aggctggatc tttgagcttc aatgttggtc tttgatgggtg 60  
attttccacc atggagatgc agctgaagac aaaggagaag aggagagagg aggcgccatc 120  
cactanggaa taagccttgg aagaaggagc ttcaccacca agataagcct tggataagaa 180  
gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gagggggggag 240  
cacgaaattg aaggaagaca aaggagaga agttgaactt tgtgttgtgt ctcacaagac 300  
tctcattcct cacagttaca acaagtgtta cacatgcac c ttttataga ctangtagct 360  
tccatgagaa gctntcttga gaaaactttc ttgagaagct tctttgagaa aactttcttg 420  
agaagctaga gcttagctac acaca 445

<210> 29385  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 29385

agctttaatc ttctagaagc accatgagct aacctcaaat ccatcaccat aatgaagtca 60  
cacctaccat tctaaaaact taattccatt ccaaaacgac catatatagg gaccaaagta 120  
caacattcca aatcaccatc taaagaaaag ttcaacggtg ttctacatat gttccaacca 180  
agcacacaca gacaaacatg tcattaacac aaattataag caaacaaga taggaagacc 240  
gcgaggggga atgagcggag gaaaatgaac cttacaaacg atgagagagt gaagctattg 300  
tgagggcgag ggcattgcaat gatgacgacg ataacacaca cgagcttcga caacaacact 360  
ggacaacttc gacatagacg ctttt 385

<210> 29386

<211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29386

tgtacgaata taagaaacat cttcttcgac cttggtgac tttgtctcca tgtcatcgaa 60  
 ttgcatgtcc acttgtaact caagagcatc aacctttcac caacaaaggt ttgaagacca 120  
 tcaaacctat ccaaaacctt ttgaagaaga gaggaatctt ctccaccatg taaatgtcct 180  
 tcttcatcaa tgggttgagc accctttttc acccaagagc catcatgctc tttacgataa 240  
 ccaaaggatg caatcatagt ggcaccgatt aagaaggatc tcttgattgg aacataaggt 300  
 tcagaatcag gagggatggt atagtgttta aggaagagag tgactangtg tggatatggc 360  
 aatgtagcat ttaatcgcaa tgccttatgc atgcgatatc ggactaagtg tgcccaatca 420  
 atttgtcggc ctttat 436

<210> 29387  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29387

agctttcttt actcaaacat ggaaagaaga caatatatac aaggcattac caattgatta 60  
 ggagaataaa tttttcctta taaattttta caaaatatta ccaattcttt ttcccatata 120  
 ggcattgcaat aaccccaact gcttaatcag gcttgctga acttcatctt ggaataattc 180  
 ctggattagg aggtagtaac tggatccaag attctctcca agactgttgg ctaatttccc 240  
 tagcacaatn tgattttttt ttttgtaaaa atgaaaagaa gttagaccgt gagtgagaca 300  
 ctntaacagt gcatgtctta tgactatttg tccttattta tgaaatnttc attagtatta 360  
 ttaacttaga agttaaa 377

<210> 29388  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 29388

agcttggttat tactatctcc cgctttgtga tgatgacaac cctaatatca agaaacacat 60  
acacattctt tgtcctagtc gatcactcac ttaatactcc atattctccc cctttgttct 120  
tgagtctaag cttcacttga aattaagcta ttgaatcata tgagagcttg atttaatccc 180  
tattatctct cccctatgg catcaacaaa aagccgaagt tgtaagaata taaaacgtca 240  
taaagatta taaagcataa taccaaagt aagcacatat cactagacat atgtcatcag 300  
aataattaag tctaaaactc ataacaatta agagtaagtc aatatagtca tgtcaaggga 360  
tactaatcaa atcataaaaag acatactatg tattcacatg tcatagaaat atagatcat 419

<210> 29389  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29389

tactaagctc gccaccacgc tcgcctangc gagctaggtt gcttctctt gttgcattct 60  
ccttccggag gaacatcttg gaaggccgaa gtgggcctgg atactatatg caaccccggt 120  
tttactacat acacccctt ccttttattg gtgattcttt ctccataacg ttacagaaac 180  
ttacgaattt cgtaacaata ctntttttct ttccgtaatg ttacggaacc ttacagatta 240  
cgtaatcatg ccttttatgc ctaccacaat gttacgaaac tntacagatt acgcactatg 300  
ctttcttttg gctttcgga tgtctcgga cttcacgaat tgcctaacga tgggtgcaa 360  
gtacctcaca gcggtcaaac gacggtcgca tcccagcaat ggatagt 407

<210> 29390  
<211> 406  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29390

agcttatggt tgtaatactt acttgntggt gatgaacaaa agcgcgaaat ggaatcaaaa 60  
aatgcgaaaa atgatgaccc tnaggctgca aactcgtaaa tcccgtaggt atggctttcg 120  
aaagggggga aaagaagtn ttgaatgcaa aaacgtccnc ctttctgtca cttttatatt 180  
ttgggtgcaga ggtggctcgc ccaggcgagc tcagctcgcc caggcgagct aacctgcact 240

tttttttttt tttgagggga acattaacca tgtccccacc tttttcacgg gttagcggtc 300  
 acctaacttg aacctactta agtcagaatt aggcgtcgat tacttatnt ataacaaaca 360  
 aatagtaaaa gaaaattgtg aatacaagga tactgggctg ccttac 406

<210> 29391  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29391

tcaagtatac aactaatact aacattgcc a tgagaacaac tattgatgat tcatgggttat 60  
 ggcattgaag atttggtcac ttcaacactc aagctttgat gttgctgcct caaaataata 120  
 tgatgagaga tctaccatgc ctatatgact ataatgaagc ttgtgaagga tgtcttctta 180  
 aaaagcaaca aaattaccat tttcaactaa caaagcatgt agagctaaag actcgtcaga 240  
 gttaatccac actaacattht gtggaccaat gaggacatcg tcactaaaca acaacaggta 300  
 tttcatcctc tttattgatg acttttctag aatgacttgg tctacttctt tatagaanaa 360  
 tcaaaggtct ctggaatgtt caagaatttc aaagctcttg ttgagaaaca aagcacgaaa 420  
 catattttaa gtaataagaa gtgttcaacg canagaatat aactcacatg agtttgataa 480  
 gttat 485

<210> 29392  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 29392

agcttttgct ttttttgttg ttcaccatgt tgctccttct atctctaaca ctgcactcca 60  
 ttccatccca ccatgtttgt ccttaaccac gaaaaacgac tttgttatcc tttgtgtaga 120  
 ccaagcaatg aagtacataa aatttgggat aaatatactt ggacacctag taagagagag 180  
 agagagagag agagagagag agaaaatata agcagaataa gtgatatgat agtgataaga 240  
 aaaaagagaa aaaaaataa aaaatattga taaggtgttt gaatttttgg atgtccaaac 300  
 atcatgtttc taaaatttgt ctaaagctta agagcatctc tagcataagg ttcttatctg 360  
 gttccttcaa ttgaa 375

<210> 29393  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29393

acagagtggg acctgcagat atgtcgcggg ggtcaggaga ccttcggggac gtcaggtggg 60  
 gtgctattgc ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag 120  
 tgagaacctg tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa 180  
 caagaccaca aagcatagag gcttgtgggtg gctggccagc tgtgaatddd gtgtaatatg 240  
 tggattgtgg cctctggtaa tgcattacca aaggtagta atcgattaca acgcttaca 300  
 ttgaggacag gacgctaaga tgggtctctgc gtaatcgata ccaaggggtg taatcgatta 360  
 ccaggcttga aaacgaagtc aggaaactta nggagcctct gcgtaatcga taccagcctg 420  
 tgtaatcgat tacacagagg aatgg 445

<210> 29394  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29394

gttttatggg tttagaatat cgatataatt gagggataat tattagaaac atagagagct 60  
 cctaagtttc cagatgcgat ctaattgatt acaatatgtg gtaatcgatt atatcaagct 120  
 acaaagactt tcttcttttg aaactagctt gggttatcga ttaattcaat aaaaattacc 180  
 aatatttgaa gagaactaaa ttttgttgct tgttctaaca ctntgcaatt gattacttaa 240  
 acttagtaat ctattacaca ttgtttgaac ttattgcttc ttagaaactt tgagattaat 300  
 ccactatct tctcatgtnt gataaccact aagcatggat aaagagaact aaatctaana 360  
 cacttaacat gcctagttda gaaatatctg atacanatgc catatcttda 410

<210> 29395  
 <211> 492  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 29395

ccgcttcaca tggagctaga tcatgtggta tcaagagcat ctttttctat gtgatgttct 60  
 tttgttcct ctatcttttg gtttgggtcaa ttcacttttag agtagattca aaaaaataaa 120  
 ccgattaaat cttagatcta cacttggttct tgcatttcaa tgggtcaaat tttatagatc 180  
 tactctaaaa tcatgttttt gtggtgattt tatgttctat cttttttcag tcataatgtt 240  
 cttgtgttga accttttagat ctaaattttt ttccaaaata ttgattagaa actaagtgt 300  
 aatcacttaa tccatgttgt cttagagtca tgttttagtca taataattgt cacattatgt 360  
 tctaagtttg tgttaaactt ttttattctg ttgattgaat tctacatacc attgctcatg 420  
 tattcttgtc attcttagcc catcttttga atcttgagtc taattcatgc atcgatatnta 480  
 gttcataaca tt 492

<210> 29396  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29396

attnttatat atacacgcgc gaaatggggg ggacgtgcga tgaggctggg aacatgaatc 60  
 tataggccac tgggccaatg cgcgcgttga tctgaaaggg tccataaaac cgcttggcta 120  
 gctaggaata tgtcggagcc agcgacgtct gccggtatgg tcggaagcgg acgtgtaccc 180  
 atacaccac ctcataagat atatcgcggc ggtgtttatc ggcagcaacc ttcattagatt 240  
 cctgcgctcg ttgaaggcgg cgcgtcaatt gcgcgtgtac ttgcagacgc gtggtgagta 300  
 gcgagtcaac ggcattcattc gacgattgac cttggagata g 341

<210> 29397  
 <211> 586  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29397

acggcaccga cgagcacgga aaacaacgca gccgaagaca gaacatcgac acctccccnn 60

ccccccaagc ggggtttgtg acaccgtaga acancancgg caancnagcn cggacccggc 120  
 gaccccnaga gncgaccggc angcangcaa tcttttttagc taaacgagac ggaccacacc 180  
 gagagaagga gaagaacaac gaccacgccc acaagaatgg acggccnaga gagcacaag 240  
 gaagcgccac ccgcaacgcg gcagacccaa cccgggaaga tgcagaagga agagccttgg 300  
 aggcgaagac aaaaccgccc caagaaggag ggaccgatga ggacacaacc aacgaccatg 360  
 aagcactgga aggaccacg accacaagca tacttagacg agcccaacac cgacagaga 420  
 ccacgctggc caacaggata gccgccacag aagatgactg aacgccaag cgagaaaga 480  
 cgaacgcca gaggcagaag cactaccaag accaccaaacc gctgctgaaa gcccacaaa 540  
 acgcggaaga ccaacgcgaa taagtgtcac gcataaggca cgaaag 586

<210> 29398  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 29398

ctggaactac ttattttgtt ttcattggcg ctatgcaggg tgaaagcctt ggaggaaaga 60  
 ggtctgccta tgttgttgtg gatgatttct ccacatttac ctgcgtctac tctatctgag 120  
 agaaaccaga atcctttgat gtattcaaag agctgagtct cagacttcaa acacaacagg 180  
 actgtgtcat caagagaatc aggagtgacc atggcagata gttctaacac agcaggttca 240  
 ctgaattctg cacatctgat ggcattcctc atgacttctc tgctgccatt acaccacaac 300  
 ag 302

<210> 29399  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29399

cgacgggggtt tgatcgtcga ncacaccacc anaactacca agctgtagcc aatggactac 60  
 cttgaatagt gacttttaat gacttttcaa ccccgagcc ctgcgcgtga ggtgaagctc 120  
 actaccagcc ttacgtgaaa aaccctgata ttaccatctc cttacagcat ccatgaccat 180  
 aggaattgcc tggagcatca gcgtgagggg ttcttagaaa acaccacaac tacgattgtt 240

ggctatccaa gcatgatgag ctaaggacac acctgacgta cacagcacta acggttgaac 300  
gctcgacatg cacaatgaac tgtacactca cacaggcccc acactcttta ttgatgactt 360  
ttctacaaga ctgctcgat tcatcaagaa cacatacgcg tctatgtgag cgcacgaatt 420  
caaaccctcc tgacagacaa acccgaggcc actcctctgc tagaagcgtc acgcaccaca 480  
tactccatg acttgctaaa ctcccaaccc 510

<210> 29400  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 29400

ctgcattttt actoctcgag accgacacag cagtcggcaa gcagacgagc gctacaaacc 60  
ttctctacta tggccttcaa caaaagcgaa tccatgtgat aatgactttg aggggagata 120  
tatttgtggt gcgcatctca aatgcccaaa gggatgctaa tctacactta gctcctggga 180  
gggtgcaaga agtgaaagta atccaagctg gtctgctggt caatataaca actgttctaa 240  
tcctgtcttc caccgttata ctcgtaggcgc caagaaaccg gcatgactct tccttaat 298

<210> 29401  
<211> 122  
<212> DNA  
<213> Glycine max

<400> 29401

ccacgactca caaaagactt cgaaaacaaa aaagcatact gaacaccatc ccaatatacc 60  
acaaaaccac aacaatacat atgcacgaag aacagtacaa ccaatatacc acacaaacat 120  
aa 122

<210> 29402  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29402

tattcntttc attcaattct gagcgtctcg atatatgacg agactcaatc agacatccga 60

gtaaaaagtt attgtcgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120  
 gctatatattac gggactcaat caaacatccg agtaaaaagt tattgtcggt tgaattggct 180  
 caaggcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240  
 gagtaaaaag ttattgtcgt ttgcatttgc tcagaggttc aacattgaat ttcgagcgtc 300  
 tcgatatatt acgggactca atcagacatc cgagtaaaaa g 341

<210> 29403  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29403

ttgagccaat tcaaacgaca ataactttta ctttttgtgt gatgagnctc gaaatataac 60  
 gagacgctcg aaatagaatg ttgaagctct tagccaattc aaacgtcaat aagtatttac 120  
 tcggatatct gattgtgtcc cgtcatatat cgagacactc gaaattgaat gttgaagctc 180  
 tgagccaatt cagatgacaa taacttttta ctcggatgtc tgattgagaa ccgtaatata 240  
 tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaatcgaca ataactattc 300  
 actcggatgt ctgattgaga cccgtaatat atcgagaccc tcgaaattga atgttgaagc 360  
 tctgagccaa ttcaaacgac cataaatgta tactcggatg tctgattgag tcccagtata 420  
 tatcgagacy ctcgatatag aatgttgaat c 451

<210> 29404  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29404

tattctttcn cctgtcagag aattgtntc tagactacca atatcattcc aaaccttccc 60  
 tattcccaca atgatgaccc ctttcccatg taactgaatt ccccttatga tttctcactc 120  
 ctctaactaa cttgattccc cccactcaca aagcactgca acactaattc tgaactgact 180  
 ctgttgccct cttggggcct acatgtgtaa accttcagag ggttcccaga attgagcaaa 240  
 ttcttatcat tattatcgat gcacatactt atttgatcca gctactaacc caatcactta 300

tagatctggt ttctggtcag 320

<210> 29405  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29405

ggaatataat caacaagaag gtgtcattct tcacaaacaa gaagttggct ttttttaatt 60  
tttttttcat aagcacttaa ttaccagaaa agaaaataag aaggaaaaat gaaataagtt 120  
ttttttaaag ttaaaattaa cttatgctat nggtttgcac atttcaaggc tcaaaaccga 180  
acggtagaag gaacattgggt atatcattga agatcaaact cattnttatg gatggaaagg 240  
tgattcttaa cttcaaccaa ccaaccaagc actaaaatta tttcataaaa taaaaaagtg 300  
ttaaaacagt gcaaaaacac ctaagctttn ggggacgtgg attcggagtg actgtataaa 360  
atcctagcca tanaaagcan atcatgtaca t 391

<210> 29406  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29406

actaagcttg atctttatgt gaagcagctt gaagattttc attttgtgtg ctagctgcat 60  
aaatcanaag acaccattgt tttctatctt caactaaacc ctgtgctagt ccatttagat 120  
aaaatataaa cataaaaaaa aaatccaggt tttcatgtct actctagtca tgatgatcag 180  
gttttgggta atgaaacaca aataactctg aaattttttg agagaactaa ataagataaa 240  
tcctaacaat aaggggaaaa aaataattaa gaaaatcaag agatgtacac attacagatg 300  
tacaagagag caggatagtg agacccttag atcaaccaag ataaggatat ttagatttcc 360  
aatgttntt attatagggt ttaggagact cagatctcca aatggttgtg cccctgatgt 420  
tattcctatt gagtaccatg gtcaagttta caa 453

<210> 29407  
<211> 431  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29407

agctttttatt tnntgtcttc gccagtgaaa ggatcgatgt gggctctgaaa aaagggcaaa 60  
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ggagaaaccc atgtttgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180  
tatctttact cagccaataa caaaccttct ccttaccac caccangta tccacaaagg 240  
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300  
agcacanacc ataaacacca accaagaagt tgaatttgca gcgagaaagc ctgtagaatt 360  
caccccaatt ccagtgtcct aagctgactt gctcccatat ctacttgata attcaatgg 420  
agccataacc c 431

<210> 29408

<211> 445

<212> DNA

<213> Glycine max

<400> 29408

actaagcttc ttcttctttc atactatctc atacttcggt tttttatttc tttctatgct 60  
atgcatctag cgccctctct gtgattggga atccccttgc ttcccttctt cctttgatag 120  
gaaactctcc ttctctgtca ctttgattgg aaataccctt tctcttcttt tatgcttacg 180  
aggctaacga ttgacattct cacactgagt cactgtttat ggtgagtcag gattttggct 240  
caagacttga agaatggcta cgcattgtac atgtcacggt ttggcttgcg tcaaagacaa 300  
aaacggatgc cccacattat ttccatgaca cagatgcaaa aatgatgata tagacatctt 360  
atgcaaaaact ggccatgcat gcacctatgc ggacactcaa gtgtcacatt tttatgggtca 420  
tgtgatgcta cggtcaaga ttcat 445

<210> 29409

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29409

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 ggtcccttat ttttttattt taaatttctt ttgctccttt atctgataaa agaataattt 120  
 atcattaatc tctcaaattt gaatcattgg tgctatttgc aaacaatgat ttttttaa 180  
 cttgcgagac attaaatgca tganaagaga agaatatatt gtctaacata tcgttgataa 240  
 ttattttctca acacaatttc aattganaag tcatccgaat aaaggaggat tagagacaat 300  
 gatagaactt aatttatcat tccatacatt actcanaaca aatgagatat tntatttata 360  
 gacataaatc tacaactcan naaaatcgcc caatgtattg gccaatanaa gtctttttgt 420  
 atgggttttt tcttcg 436

<210> 29410  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29410

tctttctggc gcaacgcaat tcatagcaca nacagagagt tatataggga gatggngagc 60  
 gacagcgagg cagagaagtc ggtgcagaaa gagaatgaga agaagaagat gttggccctg 120  
 gctcccattg ctaaacctct tgctgggaag aagctntgca agcgaaccct anaacttggt 180  
 cgtagagggt agctttatga tccattcgca ttctctcaat ttgtctgtgt ttttttttta 240  
 tttgctgctt ggtgttagtt aagtatatat attgtgttgt ttcagctgcc gaacacaaat 300  
 gcttgaaaag aggagtgaag gaggtcgta aaagtataag gagagggtcat aaagggctctg 360  
 tctgttttct ttctaacttt ctctttctca caaaaacatt agaaatgctt accctaattn 420  
 tccggtattg tgaatgcaga tngtgtgtga ttgctgnnga acatatcacc gatgatgtca 480  
 tcactcat 488

<210> 29411  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29411

gaaaatgatt attaaacaca caaatggaa gtactaagta tttattacct atacttaaca 60

gaaaatactt ataacactac aaaatagcca taatttggaa gagtttgata caatttacac 120  
aaggttatac acaaaagtta gttgtattca ccgactaaca ccaactagtg gtgtagctgt 180  
ctaggaacat gtctttgttg gaacaattgg acatcaagtt gttgtcgttn ttggtattgt 240  
taatcttgga gttgcaagag ccttccatct tatangctnt gggggaaaat gatgatggtc 300  
tntgctcata ggaccctta tctgaagcag tgctctctga attcaaaagg ttcacttctt 360  
ttctattact ctcttac 377

<210> 29412  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 29412

acactagtgg agagaccatg cgaagtatgg gtcgaaatcg cacgcgaagt gacataaata 60  
cgactagtca gggcgctgac cgtatataac agaaagacta tttgcaaaaa tagtggacca 120  
tgtaggaaac atgttgaaat tatcctatat tatataagaa aaacatagga gacaaactca 180  
aaaatattgt gggtcagcaa gataaatctt atatagcgat gcatatgcta cattccctat 240  
tcaactcctt tgcacagag ctacgacaaa agagccgaac acaataaaga gatacagggt 300  
taaataacta aatggagagg aca 323

<210> 29413  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29413

agcttttgtt catatatagc tgcaattaac aagttttata ttataagtca tttaatgtat 60  
tttaaagtgt gatacataaa tagttttgtc ctcatattga catccaaatc tttctatgca 120  
gtgcattgaa gacattaaag actacttctg acggtaaaat tgatcaacct acacatctgt 180  
gattgaagtg aagggttagtc atacaatcaa tggttattta tgactgttga tgttgtgtaa 240  
catctgaatt gtaagattga attatttttc atattgaatg tagagtcacg ttcaaagcgg 300  
aggccatgag tgtggctatt atgtcatgca ttggatgtag aacatagtga gtgngagtt 360  
gaagaatgaa tggagcatgg tatatttact tttgtataaa aattacnttg agtaacactt 420



tta

423

<210> 29414  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29414

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aaggaatagt tcgggtctaa aacaaattga ggctctctta taaaagaagc ccctagataa 120  
tagaccccaa aagaaccact gtaaattgtaa aatgccgtaa atcacaggtg aattttgtag 180  
attaaatcta actntctcca attccttttc tctaattgtga attttgtctt cgttctgctt 240  
aatgatattc atgaacttca atcttgatcg tctgtgatca taaaatcctc tagtcatact 300  
accattcttg ctttaattact ttatcgccag taataagtca gacaatctgt cagggaanaa 360  
cagtgttatg cagtgttacc gacaatgaaa agaact 396

<210> 29415  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29415

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taatgcagct cccattctc agaagctaca agttttcgat tagctcttat gattggaata 120  
ttgaactcat ttgcaccctc ggcaatctcc ccaatctaag aggaaaagat tattagtcac 180  
ctcaccaagc atatcatagt aacaagaagc tcacaagtca acaaaattac ctgtttatcc 240  
tcgaagaagt tggcatcaag cagtccaaag aaacatccta ggctggaaac ataacctttc 300  
ttgtctgata attgacattg gtttttactt ccttgattga ttgcaaaaca aagatcagac 360  
ataatgaaag caacanatta taaagaaatg ctcaaatgc anaacaatta gtgcctgaag 420  
attgaccaag ctctatacga attgcaataa gaaacttatt tc 462

<210> 29416  
<211> 437

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29416

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ttcttcctt cgcaacttga gttcactatt gctaccccat agagctccgc gaaatttggt 120  
ccggccatac tcttccttgc gagccctctt ggtctcttgt tcaagggctc ttgcggtaat 180  
tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg ccaacttgaa 240  
cttctccttg gcaagtntg cttttcctaa ctgcctnttg agagtttgga cttcttcgtc 300  
ctcttcgggt gcttcaaaac tctcttcgct gacgactttt aacttggcga gccaatctaa 360  
acctcgtata tgaactttca tccattcgtg gtaccaccca atgatgccat tacgaatgcc 420  
tctaagctct tgatctt 437

<210> 29417  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29417

tgagaaagtc cttctgattn tgtttatata tttctgtctt tattatatga gatgaaatgc 60  
aaagattgga cctcctgtta gttgttatca ataagttgct taaacacttg tgcttaagtg 120  
agacagtagc catgagactg tggtttgagc tactttcctt gaatttgtct tatgattaac 180  
ctcatctaatt tgtattgttc acattttggt ctctcttttg tctagctgca tattctgtga 240  
aaacaaggga taggtacaca ttgcttcac tttctcatca tgcaatcaat gaattttgat 300  
gcatacacc ctgtcgcaac ctacccttcg gcgggagggc gacgcgagac tcgcgggatg 360  
cgggttccac gaaaggaata cgcgcggagt cgccaccaac gtttatttga ggaanacgtc 420  
ggannaaccg ganaagacgc gatctacana ctnttaagt 459

<210> 29418  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 29418

atttttcntg aggccttaga atactaaagg aagtgtgtca tctcttttct tcatttatta 60  
cgaaagtgtg atggaatctt aagtacacca ataattcaaa aaaatgtaaa tttattttgc 120  
gttgcgacct ctttagaaac attntcgtca tggagaaaga aagcaacatt gtagttatct 180  
ctaaatctaa aagctccatc cgtcatcttt attcatttat tataaaaagtg tgatgagatg 240  
ttatacacca ataaataaat aaaatagatg atgaaaaata aacatcctac atcacttcta 300  
aaaaaatgca atttagcaac cgaaagtagt gacaaaaata tttcgactga agtagcgacc 360  
acagagttaa cgttgcaact cacgatngaa tntgcgaccg aattaatcat gatgttaac 419

<210> 29419

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29419

tgtcggngaa gagagaagag aataagctat cgcggatgtt aacagcgaaa aagagagaat 60  
gcttccgaaa gagggaaaaa aatgcttttt atttttataa atgaacggca aaattgacct 120  
ttcattgaat tgctgggtgc accaacaata ttgctgggtg cacctagcat atcccatgtt 180  
ataaagaaca aattaagata atgagtatca attgtgttat aatatatctt attcatcatt 240  
aaatttattt gatttgtctt gcgtaacatt tctttatttc tttatttctt tcatcggtaa 300  
cttaccttca cacgtggatt ttaagctcct agaatctcca ttgttaagct ccatataatt 360  
gatctgggta ggacaacata gagtttaaca taatgacaat ggatgatagc taagtcttaa 420  
ttgctctgag ttgtcattct atccgtgatt agataaatga tgagtgatgc ttaatatgaa 480  
tct 483

<210> 29420

<211> 644

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29420

ccgccgcact cacaacagta cacgtantca cagcgtacac cccgcctanc acacntncnc 60

tccccccccc cgcgcgcggg gnattgatgc agtcgnatag caacccatgc aanactcaag 120  
 canngccgac taacganaaa gcancaccac agccccccac ctctcctgtg ctttancacg 180  
 agaagaaaaag agagccaatag cgaccgcacc gggcaagaga agcaaacactc gctccgctaa 240  
 ccgccaaata cccaccatgc acagagaaac gagcgactga tgacacacac cataggactc 300  
 tgtgcataac cactcagatg accgcagcga acaccatgaa caaaccccaa ccaaaacata 360  
 atcacgaaaa ctcccagaat caccgcgaca cataaaacaa gcaggcccaa tcacagataa 420  
 aaacggatag atagacgccc tcgacgagac gccaacagcg caacagggcc atgacaaaaa 480  
 cccagaccac atatagagga cacaggtcac gtgcctgaca ggagaggaca tcccatgatc 540  
 gaaagaccag atatcgatca gaccagatgg aagacatgac caaacggcat cgtaggaagc 600  
 ctagccagaa aagacacgca actgggacgg aagacgtggc cacn 644

<210> 29421  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29421

ttcttttttt taaattacga gcgtctcgat atattacggg actcaatcaa aactccaaat 60  
 tgaaagttat tgtcatttta ctctttatag agctttcgtt ntcaatttcg agcgtctcca 120  
 tatattaaag ggctcaattg gacatccgag tgaaaagtta ttgtcgtttg aattttctca 180  
 gagcttctgt tttcgattac gagcgtctcc atttattacg ggactcaatc ggacatccga 240  
 gtcaaaagtt atagtcgatt aaatttgac agagcttttag ttttcaatta cgagcgtctc 300  
 gatatattac gggatacaat cggacatccg agttaaatga tattgtcggt tgacttttct 360  
 tagagcttcc gttttcaatt tgagcgtctc gatatattac aaggctcgat cagaca 416

<210> 29422  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29422

ntgagcacat tcaaacaaca ataacttttg aatcgaaggt cngattgtgt ctcataggat 60

atcgagacgc tcgtaattga aaacagaagt tcttagaaaa atcaaatgac aataagtttt 120  
aactcggatg tcctattgag ccctgtaata tatcgagacg cacgaaattg aaaacggaag 180  
ctctaagaaa agtcaaacga caataacttt taactcggat gtccgattga gtgccgtaat 240  
atctcgagac gctcgttaatt gaaaactgat gctctgagca aattcaaag acaataactt 300  
ttaactcggg tgcccgattg agtcccgtaa tatatcgaga cgctcgtaat tgaaaacaga 360  
agctctgagc aaattcaaag gacaataaca tttcactcgg atgtccaatt gtgtcccaga 420  
ggatatacga 429

<210> 29423  
<211> 514  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29423

cgccagttgt tgttgatcgt tgancncncg gcaatacagc gcggccgccc ggatactgta 60  
gagncgacct gcaagcattc aatcnatgag gcaacaacgc gcacaccac caagagcagg 120  
gatgccgagg gcagccgat ctcttccac acacgaacga gagaggagca cacacatgac 180  
acggcccgaa gttagtctag cctcttattg tgaagcaagc tctcttttc tacttggtg 240  
ctgataaagc atgatttgct atccaggctc cactctttaa cataactaac aagaatgatg 300  
gcgaaactgt cacggaagtg gccctgtctc atatagcaag gatgcattat cgtgtaacca 360  
gatgagccaa gtatatgatt ctgcatatgc gccggattac ttaaaaaaga tcttttgctg 420  
aagagaacac tacgtaacgt aagaattttg gttgcaatca ttctgagatt cattcaagcg 480  
gacatctgac tacttnctaa ctgcacccta accg 514

<210> 29424  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29424

atcttatcca ttntagcttt caagatgcta ggtagacctt gtgcgatggt tttgatgaag 60  
gtcccattaa tggaacttaa tggctagccc tatttcgcta gatgttagga atatcattaa 120

tagtatatatt ttgaatgagg atacgggttaa tgttgtgata tgggatgccc cccaaatggc 180  
gtttactcca ctaaatccac ataccagtgg ctactcaaaa ccaccttcgc caatggaaac 240  
ccaacttcgc aagactccta gatatgggtct ctgcatctct ctgaacatat canacacttt 300  
ntatgggtca cggatcacia aaagtctccc cactaaaagn ttttgtcttt acagacatta 360  
tttctagctg ctttgttagt aagtgggtcta tctcatgaag aaactattct tcatctcttg 420  
aa 422

<210> 29425  
<211> 468  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29425

tacccttatg gctggcctcc ggacttcact ctttgtgctt ctccggaaga tgtgagccaa 60  
gcccctacct tcaaggggca acttcctcct tatgccgatt acccctgca agaagacgac 120  
gacggagaca cccatctggg ccctctgctt ccctcaagg atccagctcc ccatgaacta 180  
ccccaaccaa acatagtccg ccattgtccca tcttcacccg caccgtaaa agaatcagtt 240  
ccattcacag aagataaggg aaagattgat gcgcttgaag agaggctaag agcagtagag 300  
ggcctcggtt attaccggtt ctgagattta gtggacctat gtctcgtgcc tgacatcgtc 360  
atccctccca agttcanagt accggattnt gataagtaca aagggacgac atgtccaaaa 420  
gggcatcttc ggatgtattg ccgaaatatg gnggcgtatt ctgtggac 468

<210> 29426  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29426

agcntttatt ttnttggaaat caaataaaac accaagatag tctcatattg taaaattgcc 60  
aaatcggtgc tcaatagaat taattgattg atctaatatg tataaaaaat actcgatagc 120  
aaaagattct tcaggtgaat gtgtgatctc attactaata ttttcatcaa aatgagaatt 180  
tctattaatt ttacgttttt cagcaaattt tggctttata tccatttcga tagccatttt 240

ttctgtggat tttaaagtca atgcaaacc attttcccta taatgtttta aataagtgat 300  
aagacctttt aaatgatcta tggcaacatc tatatgcata ncctttgatt gtagaatttt 360  
gctaatagaa ttgacagcaa acaaaatatc ataccanata ttcattccta ataacaattc 420  
acaatcttca agttca 436

<210> 29427  
<211> 493  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29427

ngtgacgata tttaaaanat gacaccaa ataaataaag ggtaatatta tattgcgaca 60  
ttttatcaaa tattgtctat atcacatgtc ctgctaaagc atttagtgat atgaactata 120  
tacaatattt gataaaatat atattacaaa aacatattaa taacaattat tcatatttga 180  
tgatattttt taaatgttgt caaaaactat tcacaatatt ttactaaaa tgtgacgggtg 240  
tatataaatg ggtagtaa atgaatcctt ggctattccc tagtattagt acaactattc 300  
atgtatattc acaaatgtac gtagatattt attaaaatat ttttttctaa gaagtaaaac 360  
ataaaataaa aattgaaata tatatgtata caaacataa attagaatta ctctatatat 420  
gataaagaac gtntaaataa tgtcacatta cacgtaccta catgtatgag tacctcatta 480  
tatatccatc att 493

<210> 29428  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29428

agctttctact atgtggcang gcgggcttcc ttcactttct tgtctccaac gcgagctttg 60  
accactgttc ttcttcccg cgatgcttct tttcatgtcc gcctgagtag gcttatagcc 120  
taaaccatac ttcccacgat ntcttgggt atntatcagg ctagttatgc cgccgttgtc 180  
tttgctaaa cccatcccg gttcataacc gttccccaac ataactcggg ccatcattac 240  
cgctgcatcg gacagacaag gctgcccaca gagggagtcc acggaggata tgctgaccac 300

ctcanaagac tggaaagtag tttctaacga ttcttctgcg gcttccacat aagccatgga 360  
 ggatgggcag cttaccaaga tatcttcctc gcttgacacg atgaccaagt gccctccac 420  
 tacgaatttc a 431

<210> 29429  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29429

tatgcgcata cttcttcacg aacgttcact tacacaagat tntttttatt actaagacna 60  
 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120  
 gagtatttgt tacctacatc acacacattt cctttgctaa attcacatac atgcatactc 180  
 taagcacttc ggctatcaaa aattcacata catgcatact ctaaagccgc atgcaaattc 240  
 aagtatattt tcttttgctc actaaaattg tattcaaatt aaaagggtatt tttgtaattgt 300  
 attttcttta cataacatgc aacatattta tagatctttg tgagacattn tgactaccaa 360  
 aaattatatg tacatacatc caagtattct gctaccattc ccaaagtgta catttccaaa 420  
 ggtattttgc tacctattct aacctacaca tgtatgatga agcagaattc taaccatct 479

<210> 29430  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29430

agctattgtt acgatttact gngacagtca aagtgtcatt cacttaacaa atcaccaa 60  
 gtacccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120  
 atctgagaag gtgaagggtg agaagggttc acagaagaaa acctggctga tatgtttaca 180  
 aaatccctct ctagtgtcaa gttcaagcac tgcttgact tgatcaattt tgaagatgcc 240  
 taaagcagat ngatagaagt gcagccttga atcacaatgt agacacttgc ttgattggag 300  
 tcaagggtgga gatttgttgt gtgtgactca naatcacaat tggcacaagt gagaaggctt 360  
 tanagtggtg ctgtcataac tgttntcagt tattataacn tgaattagtt tggcaccaaa 420



gtat

424

<210> 29431  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29431

tgaagtgaga cagtgtggaa tagtcagtct tcctactttt tntgttgacc acagagtcag 60  
tcttcttaca cccggagata tgtcgcggcg gtcaggagac cttgaggaca tcaggtggag 120  
tgctattgcc cagaaccaag cttgaccaat cccgacccaa cccgggcata gtcagtcagt 180  
gagaacctgt gacgtacctt aacaggcgag ctcttggcag tcaaccaata aaagaacaaa 240  
aaccacaaaag cacggaggct tgtgtgggtg ctggccagct atggaacttg agtgatattt 300  
ggaatatggc ctctggtaat cgattacaaa ggggtgtgtaa tcgactacaa ggcttacaaa 360  
tggggtcagg aagttgagat ggcctctggc aatcgattac caacgggtgt aatcgattac 420  
caggcttaga tatagagaca atatgttgag gaggcctctg gtaatcgatt accaatattg 480  
tgtaatc 487

<210> 29432  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29432

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acattcgagt taaatgttat gaccatttga gattctcaag aacttccgtt gttcaattct 120  
gagcgtctcg ttatgtgatt tgccctgaatc ggacatccgt gtgaaaagtt atgaccattt 180  
gaatttctca agagcttccg ttgttcaatt tcgagcctat cgacatatta tgcgcctgaa 240  
tcagacatcc gtgtganaag ttataaccat ttgaatttca tgagaagctt cgttgttcaa 300  
tttcgagcat ctctacatat tatgcgcccg aatctgaca 339

<210> 29433  
<211> 434  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29433

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gtgagctcag ttggaggtgg gcaacagggg atggtgggtt tatgcgcgca ttgtggatgt 120  
ggaaaacttg ttgtgcacca tcgcccgacc gccacctagt accacatgtg atgggtaccc 180  
cataatccta caagcttgag atgaggaagt gttgaagggt gaaacttcct gcttttattg 240  
ttgaccacag agtgggtacct ggagatatgt tgcgggggtc aggagacctt gnggacgtca 300  
ggtgggggtgc tattgcccac aaccaagctt gaccaatccc gaccaaccc gggcatagtc 360  
ggtcagtgag aacctgtgat gtacctaaac aggcgagctc ctggcagtca acagataaaa 420  
ggaacaaaga ccac 434

<210> 29434

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29434

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gcaaatacaa gccttgcttt tatagactct tcatgtctgg ccaagaggac catttagaag 120  
agttacaact tttagaataa cttanaacca atttgaaaaa gtcaaacct ttttgaagag 180  
ttacatcttt cgattttattc agaaacaatc actggtaatc gattaccaaa tcagtgtaat 240  
cgattacaca aggccttttat gtgaaaggat gtgactcttc acatttgaat ttgaatttca 300  
acattcaaag ggactggtaa tcgattacca aaacattgta attgattaca gctttttgaa 360  
attaattgga acgttgtaaa ttcaatttga aaactttntc anaacaattt tgctactggt 420  
aatcgattac aacaatctg 439

<210> 29435

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29435

atcaacatgc aactntgaaa atgtataata aagtcttttc ctggcttcca tagggttcca 60  
aaactcaata aacttcatat aaagccaaca ttngagactc anagttgana accaatcggtt 120  
tcaaacaata aaactcatta caattcanag aataagcttc ctttaacgat tcaaacacaa 180  
aagatgactn tgcaaagaag gaaaggaaag aagggtgagc tttaggtcca agagaggagc 240  
tttcctccac tcctacaaca accacactac tgatgcatca accaaacccc anagtcaacc 300  
aaaaatagaa ttaaccccc cccccccaa atcaagggtt tccatgaact tccatgggtg 360  
ctaaagagaa aaatgaanat ggaattcaag agagggaaaa aaaagtactt acta 414

<210> 29436  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 29436  
caccttctcg ctaagccaat ctgccttggg gtgggcagcc caccgtctaa tgaaatacat 60  
gctgagccat actacctgct tgggtgtcaa gatggatccg gttaagtata tcttcgagaa 120  
gctttccctc acgggacgga tcgctcgatg ccaagtgttg ttatccgaat ctactaatg 180  
tgcgctaagc agttcataag tgcgctaagt gcacgagcac gaacaaggcc acctatttaa 240  
gcctgaaatc agattttaga gagggagttt ggactggaat tcagagcttt gcatgtctag 300  
agtttctagg gagagaaagg t 321

<210> 29437  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29437

ggtcacatgt agatcttatt gtggacccca acatattagt ataaatgtta gcatgcttat 60  
ctctaaagaa aacagaggaa gctttgatga tgcctaagaa gatcttttct ccaagggtgt 120  
agctgtagat atggaatggc caacacaaaa aaatagaaac aaactttcat ctacctaagc 180  
ttttcacatg cacaacaatg tctcaaggaa tcagtgaatc taatcctcat ctacagtgtc 240  
aaccattttt taacaactct gattggactg tgatactaag tcgtgaaagt aaactcagtt 300

aaacttttcta aggtacccaa accatgtaat tgttttacca tatntttaga taaactcagc 360  
agaattcctc aacaaatggg tttagccttc catcacatgg aagcaccttt aacaatcaag 420  
aagtgggctt ttagagatca caccagaata cat 453

<210> 29438  
<211> 426  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29438

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tctggggacc atgtatgagg acccttgtaa ggttcaaaat gtcaccatag tcaccatac 120  
taagtgccat ttcattagaa gtttgagaag gcaagtcctc ttcagtcact gcacctatat 180  
gaggaccgaa taatggctgt gagactntgg atccagcatc aagtctgata caaattatag 240  
ccattgcata cgcaactcca ccaaaacctg tgtgtgatac aaaaaggtaa ctacctgcag 300  
agctacaata aagcaagagt ttagaagtta gtacattgct atattcaaac aaagaataag 360  
attaacatgg agggattaca gtttctagac aataaggata cagactcaga acaaatgaag 420  
aacatt 426

<210> 29439  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29439

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tactaattag tgtcttttaga atattgatta aaaaattaaa aaaatattta ttatataaat 120  
aataagacag cataaaaaaa ttataaagaa gataaatcca ataaaatatt tttactttta 180  
tttttttaat caatatcttt agaatactta ttaatatatt cttgaacaa attcctaaac 240  
actaaaacta tttatatatta ggcataatatt taacatctct ggaaacaaac aagacaccaa 300  
aaacttaaag tgatggaaca gaaggaatct ccaacagcaa ctaattaatc ccgcacttgg 360  
ggaagcgaac aagaaaactn tatcctccca ctttctcttt gagtaccatc accacttgca 420

ttgctaggaa gagt

434

<210> 29440  
<211> 414  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29440

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ttctacaatc ggtgatcttt ttctttgttt aaagcaagtt tcgaccgatt aattgtgtcg 120  
taatctcact taatcaccat ttaaataaat ttcaaccaat cgtttgtgtt gtaatctcgt 180  
ttaatcacgc ttaaaataaa attcaaccaa tcgtttgtac tgtaatatca gttaatcata 240  
naaaaaaag tttcaactgg tcatttactt tgtaagtcct cctttaatga gttggaaaat 300  
aaccaaggaa aaccaaagct aanatcaact cataatcaag cttttgtcca caagaaaatc 360  
gcttgaaccc gtccaaaggt ccaacgcctt aaacagtctt nttaacttt atcg 414

<210> 29441  
<211> 325  
<212> DNA  
<213> Glycine max  
  
<400> 29441

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gaacatactg gaaggcccaa gagggcctgt taagcgatct gcaccctcat aattactata 120  
tacacccctg cgtataacag gtgatgcttt tgccctaacg atacggatac ttacgagttt 180  
ctcaacgata cttgttacct tatcgcatgg tcagagaccc ttacgcgtac ttacatcata 240  
cctaacatgc ctcccggaac gtgacgaaac tagacgaatc gcgaactatg ctttctgcag 300  
gctgccaaca tgtgtccaaa atcta 325

<210> 29442  
<211> 364  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29442

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 ttccttgcca gccctcttgg tttcttggtc aacggctttt gcggttaattg cattaccttc 120  
 atcgaactca acacactctt tccggacgtt tgtagcgacc aacttgaatt tttctttggc 180  
 aagtctcgct tttcctatct cggttatcaa agctcagact tcttcacctc cttctggagc 240  
 ttccaagcta tcttcgttga taatctttaa cttggcgagc caatctaaac ctctgtgtacg 300  
 aactttcagc cattcatgat aaccaccaat gatgccatta caaatgcnc ctaagttcttt 360  
 atct 364

<210> 29443  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 29443

tgagagactg atatgtagtg ttcaaagtgg cacaatgacg ctgcttgacc attacacctg 60  
 tatttgaagt ccacacttca gagttgatga tatagccac gccgcccttg accgaattga 120  
 gactctctac tacttactaa togcttggac atgatggatg aacacacttg tataggtgcg 180  
 gactctaaga cactcatgga tgtgaacctt tgacctgatt cttcttcaca tggagagcct 240  
 gtatgctcac tgag 254

<210> 29444  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29444

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 tatagaaact gagaaaattg cactgtgcct acatgagttg caatgactgt gtggccaatg 120  
 ggaagcttaa aattatggga tttatcttct tacaagaaga aaataagtaa ggaaaagtta 180  
 tgacatgatc agtggcttct gaattgagta tccattcatc tggacctgtc ttgcttacac 240  
 tacaagtaat ggataagaca ttacctctgt gtgcattgct ggaaccaatg attgtactaa 300  
 tttgattcac atgntgaatt gtgtgactcg agctctattg ctacagcang gccattagag 360  
 ccttatattg ttgagaagtc aactntatta tagtactttg ctcactctga ttgttggtta 420

ctcattggca ag

432

<210> 29445  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29445

taaataactca gcttgaacaa ttactggcct tcattaactg tctttgggtt tgtggccacg 60  
ctcaacaaag tactttcgac acctactgta cgttgatttc accaatgctg ttatgggaat 120  
gttgcgacaa tcctttaaaa ccttattgat acattctgag aggttcgttg tcatgtggcc 180  
atatcgacgt ccttctctat cgtaagccat cgtccatttt tcctttgaga tgcgatcaat 240  
ccatgttgct atggctggac tcagttcacg aaatttttct aaattntgat cagaaatgtg 300  
cttgcatgga gtgtaggctg cataaaatta gttatgaata acacatttaa gtataaatga 360  
aagtaaaata aacgtgacca gcanatatga gatcttacc c aattttcttca acatttcttt 420  
gtgtttgcat tattgaatct tcgattgaca gtgcttgtat gtgtcgaca cagagacatg 480  
ata 483

<210> 29446  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29446

atcttgtttg gntctacttc tctgatcatc tggtataaaa gccaatgttg aaaatttctt 60  
gggactcact atctcaagtt tctcagtaat ttccttgaat gctggaacaa ggccacgcct 120  
tatgaagcac ccttctataa gccgcatcga atttaactcg gggagactag gagcatcttt 180  
taactocaga tccaagcaaa atggggagtc ttttagccac atcctgagag agtgagcctt 240  
ggccacaagg atgccttgct gtgtcttaca aggaagaaaa ggcgatccca tttccanag 300  
gcatgccttc aatgtgctgt caagagatac catgttatac tctngctgtt cccgtataag 360  
tacaactgga tttggtgact ctggat 386

<210> 29447  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29447

cacattggag aagttntatc cactgttcct acaattgttt gggcttattt tttttttatt 60  
 aagtcttcat ttaaaagtgc aaaatcctta aacatatttg ttcattcttc aacttcattc 120  
 atgtgacaac acgaattaag ttattctgtc tggagaacca aaagatgttt tctgcttggt 180  
 ttttgtttct ttcattgcat aaattcgagg attagcagac ttgtatatatt gttttgttga 240  
 ctttgtaatg actcttgaag ctttcttatg gtaagctggc ttttgtagga ataagtttct 300  
 tgtgatgaaa agagaatttc ccctcttgat tgacagggaa caatatgtac tagcaatggg 360  
 tttcggtgaa gtgaattaac acaaacatat acatgcaacc gtgtttcgag tttcaaccaa 420  
 tntagtgaaa ctaaagttag aactaanagt cac 453

<210> 29448  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29448

ttcnttgatg attnggnctt tgccagtgaaggatcaatg tgggtctgaa naaaggaaaa 60  
 ttttagtcac cttcttggat gaatgagaaa actggggcaa atgaagaatg tgagaaagag 120  
 ggagaaaccc atgctgtgac tgctattcct atacggccaa gtttcccacc aaccananaa 180  
 tgtcattact cagccaataa caaacctcct taccaccac ccagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac cacctttagc 300  
 acanaccana aaaaaaacac caacaaaaag gaattttgca gcaaatagcc tgtanggttc 360  
 accccaaatt ccgttgtcat atgctaaact tgatcccata tctactagat aattcaat 418

<210> 29449  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 29449

taagcccaat aatcagacaa acttggcaca agatgaagga tcagaatttg aggttgtaat 60  
gctcatggca accacaagca atgaatcctc caatgacact tcatggtact tggattctgg 120  
ctattccact catatgacaa ggagaaagga atgggttcatt agtttgatg actcatcaaa 180  
gagcanagtt tgttttgcag atgatagcag tctcactgca gaaggcattg gcagagtggc 240  
tcttagagac acaaatggaa aagacaçagt cattgaggag gttctatatg tgcctggcct 300  
gaagacaaac ctgctgagtc tagggaacct actgcacaag ggaattgtca tgacaatgg 359

<210> 29450

<211> 350

<212> DNA

<213> Glycine max

<400> 29450

agcttgatcat ttttctcccc aggcgagccg atgtgcttcc tccataatca tcccccttct 60  
gaaggaagaa tctggaatga ccaagagggg ctggatgcta tttgcacgcc catttgact 120  
agatacacac gatgccttca ttggtgattc tgtttgacta aacatacaaa gctttactaa 180  
tattgttaca atgcttggtc ttacatctat atgtgacgat gccttacaga ctacgtaatc 240  
tacccttga tggatagatg gatgttcaaa acattacgga tcgcgctatt acatttactc 300  
ttcattatcg gcatgtcacg caacttctcg gattgtgcta ctatgcttta 350

<210> 29451

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29451

agcttgtttt ttatttgtcc tccatgtata ttcttcttgc cataactgaa atccaaacaa 60  
ataagcattt aggtcaaatt gagaaagatg gatctgccat ttgaccaga aaaagaaaga 120  
atacnatgta caagaaaact gggatgttat ggatcatgac ataacgtttt ccataaattg 180  
agtgagagtg agagagataa tgacaaagat aaaactgata ttattgctta gaaagaaaaa 240  
aaccataga gttagataga acagaggtat ctaaagagtt ttgacttgag aaactaacca 300  
caactaactc taactacctc taactaactt ctaacagaat gtaaactaac tctaactacc 360

tctaactaac ttctaacaaa atgtaactac ttgagcgcaa tctagtgaaa actatcagcc 420  
 cttacaacat atacactg 438

<210> 29452  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29452

gcgacctatg atactcagct gactgtgtca tntgtgggtc ttggtattgc tgtttacatt 60  
 tccacctctg ttggttgctc cacgtattgc tccacgtgctc ttctttttca gccttcatcc 120  
 cgagccttct tgctttccat tntatctttc catttctctc tctctcatgc tttctagagc 180  
 tgggtgcttta ggaggagtag tgattcgatg gttgaagtta ttaatccatt atttatTTTT 240  
 tcaatcgtga gagaagagaa aaggacaatg aagaagaaga atgcaaaagc aatcccatct 300  
 gtgtgtttgc atattagaag ggagggctat caaactaagg ttcttttggt ttcttctctt 360  
 tattatgcac tctctctctc tctctctctc tctctcgctc acgct 405

<210> 29453  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <400> 29453

agctttacat tgcggttgcc tgaggaagag aaattgggtg aagtgccaaag acttcccatc 60  
 gaatctccgg tgtgagtccc gaagataaag caacttaaca ggaatggagg gggaagccct 120  
 atcacacgat tagctaacct ctcaaattct gttaagtaat cgtaataaga tccacgctat 180  
 gaaagttcga agagagctca ttctggatca tcatagaatg acggcgcgaa catggactct 240  
 atagcttgca gaaagccgga ccaagacgtg atgaatccat tgtggaacat ccaactggtac 300  
 caactcaaag cggcatcgctc gagatagaac gaagctacag taatcctttc ttcttccggt 360  
 gtgtttgggt aatcaaatag atgtgttatt ttgaatatcc atcctagtgg atcctggcta 420  
 tcg 423

<210> 29454

<211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29454

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ttgtcctgcc aacaaccacc attgttntgc aaacactcag ttgntttcat gtctgcaaag 60
aatataatca atggtacctg atatcaattc ttttatccaa aatagcaaag gacaacacac 120
attacacatt gccaaagtga gatataagat tggttgagta gtaaagaagg agaggaagg 180
cgtgggttcg atccctcctg gtgacaaaaa ctaacaaact gacaattaaa atttgccgat 240
cataaaaaaa ttacacattt ccaggtgaaa gatgagttgc ttgtaaaagg cacataagta 300
actaaggagg tagacaagat tttcctagga tgtttgagag gtanggagag aaaacaagaa 360
atgagcaaag aacctggagt taaacatatt gatggctcag tggctctctg gatacctgaa 420
cagattgcct tgagtactgc tgctcttgac agcttaccta anagcgggta ataataatat 480
acaattatac 490

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<210> 29455  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29455

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agcttatggg tattgtaagg agaataaaac aatccanaat caattgtacc tttcaagtaa 60
cgaagaattc tttttgcggc ttttagatgt ggagaggtag gagccttcgt aaagagacac 120
acaactccca ccgcatatag aatatcgggc cttgtattgg ctagatacct taaactcccc 180
acaagactct tgaagatcgt ggagtctacc ttctgtcctt catcaaactt tgataacttc 240
aagccacctt ccatagggtg gttcacagga ttgcaatcaa gcatattaaa tttcttcaac 300
acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360
attcccaagt aatatgacat aagtcaccata tttgtcatat canattcacg agacatggac 420
tccttgaagt cttcaaac 438

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<210> 29456  
 <211> 465  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29456

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atgatagttc ttgatcttgt tgttgtggtg gaggtgaagg tggttcacct gggctcttctt 120  
cctcagctat ttcttgaggt agttgagcgg gtataagaac attcttttcc acttttttctt 180  
caccocaatt ccaagaagcg tactcatcaa cttcaacatc tcaactgatg acgagtttct 240  
tagtttgcaa gttgtagaca cggtagccct tagagatatt gctataccca aggaagatac 300  
ctcgtatagt cttgtcttca agtttgtgcc tcttcacgtc tggaatataa atgtagcata 360  
tagatccaaa gacccttang tgctntgctg atggcttctt nccgttccaa gattcaattg 420  
gagtccttgc ttttacagac ttnagtggac atctgttgag tgtgt 465

<210> 29457

<211> 428

<212> DNA

<213> Glycine max

<400> 29457

ttctttttat gcctttcagc aatggtaatt ggtgcctcat tttgatatcc attgtgctta 60  
tgatgttttg catttaagtt catcgtgttc tgattgcttt ccaatgttta ttttcacgta 120  
aaatttcaag gttgcagtga gttttactgt tgtttcagag tcttttatga gtcagggcat 180  
tgtttatttg acttcttttt ctcttggcag gtttggttta tggccgaatt ttcacatatt 240  
cttgtagatt gtgatgaggt atgttataaa attaaagatg ctccccattg aaatcattgt 300  
agccttttat tgaagcttcc ttacatatgc aattgtaaat gggtcccca ctttgaatca 360  
ttattgttgg actaggcata tctctgataa tactgaggtg aaaatataat gaaataatct 420  
ttagatg 428

<210> 29458

<211> 487

<212> DNA

<213> Glycine max

<400> 29458

tggggataaa tccaccttat caccacaagc caagattatt tgatcaatgt ttttttatat 60

aattaaaatt tatgataaat aacttatatt gtaatataag attaatttta acaatggata 120  
 ctttttttaa aaaatattga aattaaactt taaaaaaaaat ggaaaggata ggttaaaaga 180  
 gataagacaa atccataaaa aaaatattag ttgaagattt tttaaaataa aaatactttc 240  
 gttaaaaaaa tacttccgat aaaaatatta gtotaattat tatectattt tttccttata 300  
 taaaacaaga actaatttta aaagattttc tcgggataaa atcagaaact ttttttttct 360  
 tatacaaagc taaaatttga atttaaccta attcttgaat agttataaaa atcatccaaa 420  
 tccagactaa aaaagagaac ccacgctcta ttatgttggtg tcgtgtcaca aggacaagac 480  
 atgaaac 487

<210> 29459  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29459

agctttaagt tgcaatagtg ctaagggttc tggtttttagt tactccatat tgttgacaat 60  
 taacttgggt ttctaccttt gtgatcattt agtttaatgt gctaagttgt ttcaagtttg 120  
 gtctttggca agtgtgtaca aagtttagtac ctatcacttt ctatattttt tgttgttcag 180  
 acctcactat gaagactaaa agtttcaagt ctttaatatg ttagttttta aatatttttg 240  
 gaggtagatg ttgaaggtag ttaogtctgg ccttgtggga gagctcattt tcttgaaggc 300  
 tatgtcagtt tttagtaaaa ggctatgtca gttnttaaca gtgttacttt attgctatga 360  
 aaaatgttgt ctttgagagt ggtgatgtc acacaatact tagaaacaaa gtatcaataa 420  
 atcgtgtatg gaac 434

<210> 29460  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29460

taccncact actaccaca accaccacc aaacctatct ttgtttagaa aatgacatcg 60  
 gcagaaatgc agttgagaag agaaaggggc ctatgcttta cttgtgatga caagttttcc 120

cctagccatc gttgtcctaa taagcaatat tttgttccac agtgggaaga agaggatgaa 180  
 cctgcattac aaccagatcc accagacgag gttgagacag ctggtgaccc cagtttgcaa 240  
 gatcatcatt tgtcttataa tgctttaaaa ggctcatcan gtcttgngac aatgaagttt 300  
 caaggatcaa taaatggatt gagagtgtag attctactag atagtgggag ttcagataac 360  
 ttcctccagc ctagactagc tcaatgcctg aagttacct 399

<210> 29461  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29461

ttctttanat ataactgttt gagaaaatgt ccaactaana agtgaaataa aggaagaaag 60  
 agaaagataa gaggaaaaaa agaaaaaaga caggagaaga ttgaggaagt gaaagacaaa 120  
 aatgaaggag tgtagcggcc tcgtaggaac atgactgata aagaagaaag gaggtggctc 180  
 tatgatgcaa tcctactccg caagggcatt ggatagaaaa actccaagta gattggggcca 240  
 gagatgcaag agaaggccct agggttctta tgagccttan ggtagatttc gggcccatgg 300  
 gctaagtacg agcccgtta tctttgtaaa tattagatta aggtttcatn tattttgggc 360  
 cttgtattta nggctccata atgtaggtag ggtaccctag aaatat 406

<210> 29462  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29462

tgtggcggct gaggatgagg acgttgttgc tttgatagtg cattttgctt tcaaggacac 60  
 tactgttaaa aagaaaaatg aggtaactga tgcaatgagt cagagggggg aaaaaaata 120  
 atggtcgaag agaaaaaaat aaaagaccaa gaaaaataaa tagaggtaga aaaagaaaaa 180  
 gaaaaagaag aaaaagaaaa agttaaaaaa ataataaaga tgaagaaaag agtagaagtg 240  
 caaaagaaag agaaaagagg aaagagaaag cttcagataa gggtacggaa gttccatatc 300  
 ccgtggtacc gtccaagaaa gataaggact gccatctggc gagattccta gacattntta 360

ggaaactgga aataactgat tcctttggag aagctntaca gcagatgcc a ctctactcan 420  
agttnttgaa aggttngttg acaaggaagc acaagtacat tcaccaggag aatatcatt 479

<210> 29463  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29463

ttctttatgt ttatgaatca agttgattca agaagtttag ataatgacaa agatgtagac 60  
aaaaagccca aagaatgatg tcaagattaa atcaagaaca aattcaagaa tcaagagaag 120  
tttgatttca agattcaaga aaagatgaat tcaagttcca agagaagaaa tcaagaagac 180  
ttcacaaggg aagtattgaa aagatttttc aaaaaacaac atagcacnag tttgtttttc 240  
aaaagagttt ttctcacaag tttctaagtt accagagttt ttactctctg gtaatcgatt 300  
cccagtttcc tataatcaat taccagtgac aaagtttgat ntcaaaagtt ttcaactgaa 360  
tttgcaacgt tccaattgat ttcanaatgg tgtaatcgat tacaagatat tggtaatcga 420  
ttacca 426

<210> 29464  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29464

gctaacctta gttcatcget gttgatccca tgggtcttct ttatactttg ccacattata 60  
tcaccttgac catttataag gccactagtc tcctatggca cctagacttc attcccttag 120  
ttttaacaac tcattagatt ctcaattcac taatacattg gacagaaatg tgtataacct 180  
tttttctttt gtaaactact ctataagggc tcacatcacc tctctattaa gcataatata 240  
ttttacaagc taattacata atatatttaa attggactca tccattcata taacataaat 300  
aaattccaat ctaagaagag gaaataaaga taaaatttat acacttagaa nataaggcat 360  
ataataaata gaaatttata acaaaaactca attcatataa gtcatctcat atacaagtac 420  
atcaacaaaa tattgtcaaa ccaagatata atagttcaat tactaaacat caccatgtga 480

cat

483

<210> 29465  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29465

tctttcttgt tgatcatagc agattaagga caatgaactc taaagaggga agcgtaatta 60  
tcaagtattg aaagtgattg gttcattcca agggaaacgc atacacaatt ttaaaaagat 120  
tgagttgatg atatcttcgt actcataaac ttgggtgtacg tgattcttcc ttcaccatct 180  
aaagtgtttt tttctttctt taacaatatt agcaccactt atcttgccac tattttttatc 240  
tttcatgctc gaactaaact tctaaccat agactttcac tatgtacatg taaaaattgc 300  
ctctaattaa tcttcttcaa atcactatat atgttactac cattcttcna agggcttatg 360  
ttctctcacc anatcttttg tcatcttcta tccacacaca cacaaaaata ctttgtcatc 420  
tact 424

<210> 29466  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29466

ttgttacttt agtgtctaatt attaagtaaa tttttttttt tctganattg caatctttca 60  
atctcacatg taacatgtga cttgagtgat taatattaac atttgtttta ggatcaaaac 120  
catactaagt ggttaaaatg gctaagaatt ttgggattta tttaaatttt tcttaatttt 180  
agggaatcgt gtgatagtc ttttaatactt tcaacactaa aagttaaggt gatttaccg 240  
ttgtctctac cttagtccac ttctatcaat gcatgaatta ctttaatttat tataataaca 300  
ctcaatcatt atattatcac ccacattctg gattcataaa aaagaaatca tccacattnt 360  
ggaggcaaaa taacacacat cagaatcagt ggtcagtggg taagttaaag agaaaacatt 420  
tgtacttcga gggtagacta natttagcat ctgataataa cttcggactt tctagcatc 479



<210> 29467  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29467

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 gctcacgtaa ccacaagctg caataatgtg tgaacatgga tagcgaaacg cataatacct 120  
 tccgcattga caatgacgac cattcaagtt tactgaccac ttttgtccgt cacgttgcgt 180  
 tataagggtg aagctctcct ctacttcaaa ccttgtggag tggatatcat acacgcgaac 240  
 gatgtgcgta caagcttggt cttgattttt cctcagttct ttaacaagct ttgaacaata 300  
 tacttggcct tcatttaact gtctttggct tggcagccac gctcaacaaa gtacttccga 360  
 cacctactgt acgttg 376

<210> 29468  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29468

tgtagagggt acaacaagaa agtggctcta gattattatt ttagtaatat agataaattg 60  
 gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtttg 120  
 gttttcatga gtgtccaaca gcatcatcat tgtattactt tgcttttaac agaggccaga 180  
 cagctgcttc tgcaattaag ttgacatttg agaataaaat catgtaatgt aattcatgcc 240  
 cctctattca tgtgaatact taaatacacg catgctttgt ttgcaaatca ccgggtagag 300  
 gggtgattan gtagttgttc aaaggctctg gataatatta ttttggactg ttaaaattac 360  
 tacaaatttc tagaatattc ttacatataa tatgtatgaa aatggtagaa taccctagaa 420  
 ctatagtggg tatgaatata gtagaacaat ctaanactat aatatgtatg aatatg 476

<210> 29469  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 29469

tagcttatag ttacttttac aaatgattcc aacatcttga aagagagcat gaggatctca 60  
 agaaaactaa tcaagctcat ttagatgatt atgttctgga aaccacttca gctggagatc 120  
 tacaagacaa ctctgttatg tatgaggcca atacattatt ggacgaaaat gtatccagtg 180  
 gacgaaagat tcttcttaag gattatcgag acttggacga caggggtgaaa tccttaactt 240  
 caactcgtga agattctgaa gaagagtaca attaaatgct taaacaaaag ctctgatttc 300  
 aaaatgacat aaatcttgc taaatgagc tcgataagtt gaaaaacacg acgcgaagtc 360  
 ttaaataaac taccacccga gattgaaaac a 391

<210> 29470  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29470

tcaacaattg tttaatagag ataaaacaat ntgtacgtat tattattttc atgaatcgnc 60  
 taatagagat aaaacaacaa ccaagccttt tcccactaga gagattgaat aacaaccctt 120  
 gttataacct agcaagggtc ctaagatatt gctactaact ttccagcaca ttaaccttga 180  
 atgtattgag ctggaatatt taatttaatg gattaaaaag gtacttcata tcaccaccaa 240  
 atcagtggct aagacaatcc atcatcaaat ttctcattaa aaaagaaatc ttgacattaa 300  
 tgaaatggat aaactttcaa tcatatgagc tattcaataa agtatatgtg gttccaaggt 360  
 gctaatatga ctgcgatttg ataattctac gtattggttg tgattataaa tacatgacaa 420  
 gaaaacacat ttatagaggt gaagcccnan ctaaacagaa tataggataa cattcctctc 480  
 acatacagaa tct 493

<210> 29471  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29471

agtggtctat ttataaatct tgtgggtcatc ttctcatgaa tcttatctct ctctcacaca 60  
 cacattcttt atcaatttga tgagttttaa gatatatctt tttaaataac tntaacaaaa 120

ggatattgtg tatgggtgat tgattagata ttgggttttaa acaaaaaaaaa attgtgatac 180  
 ggtccttggga agcgaaagtt tttcaaaatt gtttttattt tgatttattt tcaaaaccaa 240  
 ttactcccc ccccccccc ctcttttttg tttgttagtt ccatcattaa ttggtatcaa 300  
 agctacatct tgaaagttgc tcaagatcac agtttttcta aaatggactt taaacaaatt 360  
 actttcaaag aggggtgcttc tcttaatcgg ccaccatt 398

<210> 29472  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29472

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 cccacattct tatgaaattt gtctttacat ggattcttat tccttctata ttagtaccac 120  
 ttctttgccc accatcaaaa aacatacaaa aaaatacttc ccttatctct ctttgatctc 180  
 ttgatttgcg gccaacactt tctcttcttc gttctataaa tgcactttac tgtatctaaa 240  
 tctcatcttt tttttctcta tttgtgatga gcttatatat cttaacttct ttattctttg 300  
 cccaaggat ttgtaaaact cttcaaggat tntagatcat actttacctt taacatttct 360  
 tgtcttattc ctagtgtnnt gatagcttgt ctaattntca acattattac acccatgcaa 420  
 gagtttaaag cattntcttt tattcctaga cttgtcttga acanttttat tccacttcca 480  
 atattc 486

<210> 29473  
 <211> 214  
 <212> DNA  
 <213> Glycine max  
 <400> 29473

cccaccgccc cgaggagcaaa gcgacgcagc agcaactttt ttcctatggg acaaacacct 60  
 aacgcaaaca ctaagagggc accgaagcga gactcaggaa accgaaagag agagacgatc 120  
 cagcacggag aaaacatgaa tataactgcg aacactcaaa gcacaaagg aagcgctcaa 180  
 tagagaaaat ggagccaccc agagacaagc gaca 214

<210> 29474  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 29474

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 acgctgagca acggtgacag gactcaaagt gtatggacaa ccaagtgaca tgatgactat 120  
 attaccaatt ttgctagcag agagtgttga atcataggag tgctctctca tctggcattc 180  
 ggcacatctt ctagacctat tctgtgtcat ctacaattaa aacaaactgt tatgacctga 240  
 taagaaatag ttctactgta taccttataa ctactcaac tctatcatga ccctatatat 300  
 aatatgcaga attaccagca cgcatacata taacaccct 339

<210> 29475  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 29475

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 tcatcgggtca aacagatgaa gaaaggatat taagaatgga aaaccgaaca cactatttac 120  
 ccattaataa tcgagagtag atatatctgg cttgcgtgct aataaaagct gcctcagctg 180  
 cgaaacatgt gtattattgt gtgtatatatt tgagctacaa aaggttttaa catgacgtat 240  
 aaagtaaatt cccgtacgga gtatagaatt ggattttcaa ttatttatta tagctagcag 300  
 acaggcatgt aaacagcccg tagccatcaa taatgaatta ctataagaag aacgagactg 360  
 aattcaaac aaacgacgct attatgagat aaggcatgat aatgaaatga aggctgctat 420  
 acttaactg 429

<210> 29476  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<400> 29476

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tccaagcatg caaaggttca acatagaaat aacaaaacta acataaataa ataaaggggg 120  
 ggaagagttg aatttcatga atggattaca attaccaatg gtgggggaaa gatcttcaac 180  
 agaacttgaa ataaagctga caagtatgct actttttacc accccggaat ctccaatcaa 240  
 caagatcttg aaagagagat catagccact gctctgacct gaggatgaac tcattctctc 300  
 ttcctctgat gaatgtctta cgtgtgtgtg tcaaaaagta cagtgaaga tacgtatgca 360  
 agggtgagag atatatagag gcttatgggtg ttgggctacg gaaggctaac ctgtaacgaa 420  
 gacaatgtgg caaccctttc attattgggtg gagagataat actgaagaga gagagata 478

<210> 29477  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29477

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 gtgatcgatg acaccaggca atcgacacgc cccggcgacc agagagcgac cgcagcangc 120  
 attattagat gaacaacacg accaacgagg acgagaaacg aagagacgac aagagcccaa 180  
 agtcaagagc accgaaagac acctagacga tgacaccaag agcaagacac aagcaggcaa 240  
 gaacaccgca agaacaagag aactgcgaaa ccagaacaga aacaacagcc agaccaaaaga 300  
 acaagagaac aagacaagaa caacacacaa gaccgacaac agagaagact aatcaagaaa 360  
 gaggaaaaac gccgcgaagc aacgagagca caggaagtgg ccaaaaacac accaaacagg 420  
 gacgccccgc gaccgaaacc aggaagagga ccnataccag gggcgaaaac ggaagaggcc 480  
 gaatgacacg agagaacacg ggg 503

<210> 29478  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <400> 29478

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 aagacaaggc ttttttcagt tccgttgatg gtgagttata tcacagtcgg gttgagcctt 120  
 ccatcgtttg ggcagatcca acaccacctg gtgggtcatt cgtcacctca tgcacgactt 180

cctgccatct gcatagatct ttactcttct cctacaacct tgtgtgccgc tttgcgacgc 240  
gtgacatcta tcgcacgagt accttttctt tggcttcagt ctggct 286

<210> 29479  
<211> 507  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29479

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acagtgactg atagaattcg tgttggtatc tatctagctg aaagtccacg cacaactctc 120  
tttagttggc ctacctatc acccatctga tgggccgtac gtctgccact agaaccatcc 180  
aattcatctt tgtctggcta tccacacacg ctgcagaca tacatcatca cgaggcggac 240  
gtcactaca tccatcatag catactgaaa gagagcaata tattcatcat acacatccat 300  
ctatccagag cgggtctagg acagcacacg cgggccacgg agagagaagt agctgacgca 360  
tcacgaagaa gtgaaacact actctgaccc ccacatgcac cgacctatgg gaggagacca 420  
ccaacagtga tggcttctc cagggcggag acatactact acgctaccgg aaggatgggtg 480  
acgtcctact cgatgccgtc ttacacn 507

<210> 29480  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29480

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actaatgagg ataagttact aagtgaactg attagtcgct accgccacct atgaacaggc 120  
gtgaacacat atttcagacg ctnttttctt ttaatggta aaacttaaata acaatatctt 180  
gggtgttatt ttgttcttct tcaatcgaa tttatgtttt agcttagaaa actgtataat 240  
ttttaaatagc aaacttttat tatactaatt gcagagatag aattccaatt ctaattagta 300  
ttttcattaa gagaattatc tgatgatatt tttattattg tcattagtat ttaagttatt 360  
attgtattaa accactaggc aaatcctggt ccatttttgg atccaaatgc aatggganna 420

tattaacgca c

431

<210> 29481  
<211> 488  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29481

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cagtgtggtg ggatatattg ttgcaccatc ttcgtcgggt agagattccg tacttcggat 120  
gaggtggtga agcacagtac aatgatgaga ggaataattt tgtagtgttt tcatttataa 180  
aaatagaact attttttctc cccttctttt agagagtttg cacaataagg agtattatta 240  
attatgcggc aatgacggtc tccggccttt atcaattttt aagaaaaata attttagctt 300  
ttaacaattg ctttaagaaaa agtttttaaa atatttttaa aactttnttt tcacatatat 360  
ggaacacata tataacaata aaaaattatg cccctcattt aatttacaca atttcttaga 420  
ctntntttat ctntcaacan accacctcac tacaagtgac tctaaataaa ataggtttct 480  
ctttatac 488

<210> 29482  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<400> 29482

tttattcatt tttatgcgta gaaatcctga acaattctta gaattatatt ttagactttc 60  
acctactaga cgcctccatt attccattac acactctagg tttcatgata ttatttttat 120  
gagtgcatac tcttctacct aggagaggaa aggatggacc ttgttgatcc ctttaactcc 180  
atcaattcaa tacttcatct tgatttcttg tgcggcatc tccaagggat tgaatatcat 240  
gcaagtagtt tagaatatgc aaccatgtgg gagcttgggt agaatacatt agtgaattga 300  
agataagcga gagagatgag tatagaagta tgaaattaca gtggatcgag taaatttcaa 360  
gtcagacctt tacactcatt caccaatata gatgtcacca tccaagtcta ata 413

<210> 29483

<211> 305  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29483  
  
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 ggtgtccgat atcaattatt tagagcccca cacagttgca agatgaacaa attacaaacc 120  
 taaattatat agaattgcac attgatgcta agcaccatt gctgtggggg taattattct 180  
 tggaagacgc atacagcatg agagctattt gaactcctcg catcacgcat caaattgggtg 240  
 ccaagcctta catattctaa tgctaaactt caaacaagaa gaaagaaagc cattctctga 300  
 cctct 305

<210> 29484  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29484  
  
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 catgagagct tagaaaacat ttttatgcag aataggctta ggcgagcagg cacgcttagc 120  
 ctaaattctac aattnttcaa acagagggag atttgagctt agcgtggcaa ggcgcgctta 180  
 gctcaacctc acaaaaacat atcacaggtt tagcgagtag gctcgctaag cttattcca 240  
 caaataggaa aaatagagac gatattgcgc ttagcttagc agccaggctt agtgctgaac 300  
 aataatttga aaaattctaa gtgtctgata tagtagtctc actcaacaca caaacgcgct 360  
 tagcgagttc accattgatg ctcacagaag agatgaatgt tgcataccct aattctccgg 420  
 gaca 424

<210> 29485  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29485  
  
 ctcaagcttg tcgcaagcta gcgctatcag agagtttctc gttatcgga accctctatg 60  
 tcttaaaaat atggaattgg gctgagcgac ctgctcctaa gcctattctg cgaaaaatgt 120



ctttctggtc aaccgctaaa cgcggggtatc gcgcttactc atgagtaaaa tttcataagg 180  
cacgctaagc gcagtcgtcg gctagcgccc accttaattt atttatttct gtttcacttt 240  
aatacatctg ataatcgtgc ttatgatctt ttgtttgaga tggcttccat aaaaaagtac 300  
tgcttcttgc ccagatacgt tgataataag attgatccag atgccggacc gttgtaacat 360  
gcctggcgaa gaccttccaa agat 384

<210> 29486  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29486

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gaacgatatg cacttcttgc attgtaaatt tgctatatcg tgggtgcaact gttggcattg 120  
tgttccttca acgttagcaa gatgtttttt ggtttcacca tcgactctgt catatcagca 180  
ataattttct tttcatcctt actcaatcgc ccaacgtatg gatgtccaac taaagacttg 240  
gccaatcat gattgtgaat cccacanatc aacttcacca tccaaccttc tcttccatgc 300  
actggtttcc cacgaagcct gagaggacac accacagttc tacttccagt gtcttttcta 360  
acgagttctt attcctacac ttgtacgtac cactccgttc acaccaatt aagaacaatg 420  
aacttcttct tctg 434

<210> 29487  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29487

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caaaaatttc agactgggtg cggccatgcc ttcctgattg tcaattggga aactggcaag 120  
tcgtggaatg acccgaagtt tccatggcgg gcacaatgta atgcttttagc ttcaacccta 180  
ctactgggcc taggctttta ggttctctcc ttgttaaggc gttatgtcat tctctagtaa 240  
agaatataat ataaagatct ttccttaate tgttcttgtg ccttcaccca ttctcattca 300

tctgcatggt tatttttgtt gcatctaaac gatacagatc cgatgatgag tcttgtaaag 360  
gtactaatac cgangaccct gctgtcgatt ntgaacaaga agcgaatcga cctg 414

<210> 29488  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29488

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gccagattc catctttctc acgaatatgg tcagaacctt tccacaagca caaggaataa 120  
tcacaagata aaaagtttaa aactagggtc taataaagtt gagagttgta ctttgctcct 180  
cttaatgcaa tagcaaacac ataccagtcc caaaactttc ttcaccacag actgaacata 240  
atccagcatc cattaaatta ccaaagaact tccaaccgtg ggggacctgg ttgtgaataa 300  
caattaaata aaataattgc atgtctaana gccatcaaca agtagtttca tacttaaaag 360  
acattgaaga gcaatatacc tcanagaatc tcanattcag atgtttggca acaaca 416

<210> 29489  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29489

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ctctaattaa tatttatatgg cctattgcaa cgcacaaagt tgttttggtt atgattcata 120  
gacgtgcaac aggttcattt gggagaacag tcaacagaaa gaactttgaa aaagataaac 180  
aaaggggcaa aatataaaag cagttgacct gcataatcca atcacctata ctaactactg 240  
aactttgaca gaaattaaga actggacaac cagtgnnntc gaggtaacta gtttgattag 300  
tttagtttag tttttgatat ctaaaaagta tcaagtataa ttatattggg gattgaaaat 360  
gaacgattta attaagaaaa tagaagttta gtggaacgtg tatgacaatc gtaatata 420  
gttgatgaaa aatggtaagt aaataagcaa aagtgtcgta t 461

<210> 29490  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29490

cgaacagccg gcacaacagg cgcagaaaga aaccctcccc ccccccccg cgctgtaac 60  
 ccgtgacacc cagccnnacc gccccgggag cgaacagcga ccgcagcacg caagcagggt 120  
 agcatcggca ccccaaaacg aggaggcacg ggaagacagg cggaacggcg cagcaacaac 180  
 aacnagcaag ggggaaacaa cgcgcgacaa aaaaccaagc cagcccagaa gccaccccg 240  
 gaaaaccacc accagggcgga gacgcaggca agggcggaga gcngggagag agcgacgaag 300  
 agcaggacnc gangcgaacc aaagaaccgc aacgcaaggg caacacgggg aggaagcggg 360  
 gacaaaagaa gaaagacgcy ggggcagggc ccgagcaggg agacgacgag aggcgggaag 420  
 acgcgagaac aaaggcgagg gaacacaaca agaggcaaaa acgccggaga gcgc 474

<210> 29491  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29491

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 caagacgcac cacacaatga gtatgtcaag tcaactctac taagtaatata cataacgtga 120  
 ccaatcaggg tcaactccgtt tgcgagaatg ctcataccat atgagatcaa cgtacgctta 180  
 aagaagcact cacatcgagt gtctttactc ccaaggccca gacttcgaag aatccgttat 240  
 ggtctcacct tgetgattcg ggtgtaaccc ctacaacaat tnttacaagc agacactgct 300  
 catgaatgat acaataactca tgacctcaca ctctgtgattc aaacacgtat aacacattat 360  
 gatacaattc aacactgggt cctaactatg aacttacact ttctctntaa cactgcgcac 420  
 atacgacttn ttcaatatag acactgagac gagttattgg ataattcac 469

<210> 29492  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29492

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gtgattttcc accaaggaga tgcagcggaa gacaaaggag aagatggtag aggcggcgcc 120  
atccactang gaataagcca tggaagaagg agcttcacca ccaagatgag ccttggataa 180  
gaagcttgaa gaggatgctt caatggagga aaagatagag ggagagaaag agagaggggg 240  
gagcaccgaaa ttgaaggaag ataaaggag agaagttgaa ctttgagttg tgtctcacia 300  
gactctcatt catcaaagtt acaacaagtg ttacacatgc ttctatntat agactaggta 360  
gcttccttga gaagctttct tg 382

<210> 29493  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29493

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accactcttt ctttccgaga tgcttctctt tataatccgcc tgagtgggtt tatagcctaa 120  
accatacttc ccacgatttc ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180  
gcctaaaccc attccgggtt cgtaaccgtt ccccaacata actcggggcca tcattactgc 240  
tgcacgggac aggcaagctt gccagagaa ggagtctacg gaggaatgc ttaccacctc 300  
anaagactgg aaagcggttt ctaatgactc ctctacggcc tccacataag gcatagagga 360  
tgggtagctc accaagatgt cttcttcgcc tgatacgatg accagatgcc cttccactac 420  
gaatttcaac ttttggtgga gtgtagaggg aacaactccc actgagtgga tccacggggc 480  
ccccaacag 489

<210> 29494  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29494

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ttcatatacc tctttgcttt tttaattntg atatgaatat ccttcgatat gtcccctgaa 180  
ttcctacaat cacaatcact aattgattta ccttctttgt cattctcttt cagtgcattgt 240  
tgtgggtctag ccttcgatcc acttccttta gagcttgcta atttcgagca accaatattg 300  
gctagacaaa ctagtttctc atgacaaata tcctatcgtg gaccataatnt cttgcataag 360  
aaacanacca agtgtacata aaccttcata tntatggagg aaatatcact ccatgagctt 420  
t 421

<210> 29495  
<211> 493  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29495

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gatcatccta ctttgatgag tgagaaagct ggggcaatga agaggatgag aatgaggagg 120  
aaacccttgc tatgactgcc attcctacac ggtcaaattt cccatcagcc caacaatgtc 180  
atcgtcgaac caatatcggc ccttctcatt acccatcacc caattatcca caaaagccat 240  
ccctaaatca accacaaaac ccacctacca cacaaccaat gctaaacacc accttttagca 300  
ctaaccacaaa caccaaccaa ggaaggaatt ntgcagcana aagcctgtag aattcacccc 360  
aattctggty tcatatgcta acttgetccc atatctactt gataatgcaa tggtagccat 420  
aacnctgct aggtttcctc aacctccant tttcctagga tacgactcga acgcaacatg 480  
tgcatatcat gga 493

<210> 29496  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29496

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accattgttc ttccttcccg caatgcttct ttcatgtct gcctgagtgg gcttatagcc 120  
 taaaccatac ttcccacgat ttccttgagt atttatcagg ctagttatgc cgccgttggt 180  
 ttttcctaaa cccatcccg gttcaaaacc gttccccaac ataactcggg ccatcattac 240  
 cgctgcatcg gacagacaag gttgccccaa gagggagtcc acggaggata tgctgaccac 300  
 ctcanaagac tgganagcag tttctaacga ttcttctgcg gcttccacat aaggcatgga 360  
 ggatgggcag cttactaaga tatcttctc gcctgacacg atgaccaagt gccctccac 420  
 tacgaatttc agcttt 436

<210> 29497  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29497

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 agttttaata tttgtattta ttttcattta atcaaaataa ttaggagttt tgatttgtct 120  
 taagacataa atgtcttttg actcaatact tactgaataa aataacatgt gtatatcata 180  
 tacatacatg tgacacactn tanaatatag ttacaaactt tcatttttat aaacgttatc 240  
 aatttangcc ctttcaggt tggttgtag ttccgggtt ttggttttaa aatgcaattt 300  
 caaaacggat acgcattgcg ctaaaatggg gctaagttgg attntagttc ttttcaaaac 360  
 aattttcacc tcatttcana aaccaaacia taggtttatg gcgttttggt gttggtttac 420  
 cctanacca agagactaac ttctacctc acgttgctnt ctctcccccc ttcatgttgt 480  
 ctct 484

<210> 29498  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29498

agcttttatg atatgattac actatcaagt ataagccagg gtttgctaatt gttgttgccg 60  
 atgcgttgtc cagactcttc tcgaccgagg tctctgctt atcattaatt atgcctcatt 120

tcaactntttt gcatcaactc cgtcacactt tgttacagga tccccaatat gttgatcttc 180  
 tgcataccat taaattgcgc ccagatgctc actccaacct cgccattcat aaggacctta 240  
 ttttccgaca aggctgtatt tagattccct tcccaacccc ttttactgcc ttactcttag 300  
 aggaatttca ttcttctcct ctcgagggtc acacaggggt atcaaaaact ctccattggt 360  
 tacgacaaat atttgattgg ccacatatat aganagatgt tcgtcggtac atcgcgcaat 420  
 gtcccacgt 429

<210> 29499  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29499

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 gggatcttta gaggatcaaa ttgagattta ttttgggatg tttactgtat tgtgattctt 180  
 cctatatgat tatgtgaatt tgtttttagca gtttaatcat atgaatataa catattaata 240  
 ttattattgt gtgacatgta tataatgcat gaggcgatgat agcgtgttgt cttaggatta 300  
 tgggagtgta ataaactatg tgtaagtggc aagttgagta tgtgttaaata tgtgagatca 360  
 cacatgtgta ttgagatggt gtgtgcattg agttgtgagc tatgaaccat acaatcacat 420

<210> 29500  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29500

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 aatacatatg tgaggggtag aggggtgcat agtttttgtt agaaatgtca atgggagggg 120  
 tttgagtccg cgacctttgc ctctccctt ctccctttca tccttaagac ccctttccca 180  
 ccctatttgt tagtttttct tagctgcatg ggtaatctac ttgcctccct ttttgtattt 240  
 gccttgtcta gcacactcaa ttagctgcac gtctctcctt atttgtgtat cactcaacta 300

caccacacaa attcagcatc attaccaaga agcaacaaaa ttcacccaaa accacaagag 360  
 acccacacca taatccatgt ttgcattnta actntnttgt gaatntgtgc catatggctn 420  
 gtctagtagt gctcctcttg tggctgtaaa gacattgaat ggtgttgatc acattgataa 480  
 t 481

<210> 29501  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29501

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 gaagaaattg tagattttaa aaaatgctct tcccaaattt actcttggtg aaaataactt 120  
 agatataata ttatgaagac aaagatgtgt ctttgccaag gatggattag agtataatcc 180  
 taaaaatcaa caaaagatgc acaaaaattt ctttgccctct actcaaataa atagttctcc 240  
 cttcttaaca tatttttact gtggtaagaa aggtcatagt gcctcaacat gttatattan 300  
 gaagaatgat aataacattg gaaaaatggt atgggttcca aaaggatctt tagtcaaaac 360  
 taacattcaa gaaccaaga aaatttatgt acataaatca agaattattat tatatgattg 420

<210> 29502  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <400> 29502

tagacggaga agaagagacc ttagatggag aagaagaata agagcttaga tggagatcga 60  
 agaagagagc acgagcaaaa tagggctcgc gtctgatata ttttaaaatg taagtccaac 120  
 atcgggtttc aataaataaa aaaatcgatg ttaaagttaa catcagtctt ttggacgaaa 180  
 ccgatgttac cttatcatatc attggcattg gttttctaaa aaccagatgt taacaaactt 240  
 acgttaacat cagttctgca tatatcgatg ttaacagatg cacattattt acaattatgc 300  
 caccgcgctt aatatggcga tgttaaactc tgcttttgta ctagtgcttt taaaatagtg 360  
 aagtcataat gtgtctctta tatggcgctt cttttagaat gagcttaccc 410



<210> 29503  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29503

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 attttggttaa tcggttacca gtgtgtttga acgttgaaat tcaaattcaa ttatgaagag 120  
 ttacatcctt tcacaaaaat tctttgtgta attgattaca atgatttggg aatcgattac 180  
 cagtgataag ttttgaataa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240  
 tctaaagggt atgactcttc taatgggttt cttgaccaga catgaagagt ctataaaagc 300  
 aagacctttg acttgaattt agaattcatt cataacaatt atcacaatct ttgaatctct 360  
 ttgaacatct tcttcttcct ttccaaaag ctttctaaag ttntctgggt ttctaaacct 420  
 tgaaaaca 428

<210> 29504  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 29504

tgggtgatgt tgcgcgtact gatgggtacc atgaggttgt tgctgtggtt tgacccatgc 60  
 gggcggtgaa gagacggcat gggcatctcc ttccttcctt tctgcccctg atgcccgat 120  
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccac 180  
 ctcgattctt tccccggcaa acaccagatc cgcacagctg gacggcatgt aaccactat 240  
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
 catgggagga gctacttggt ccgcctaate cctgcatcgc tgcgcatatt ctttaaagt 360  
 tggacgctac ttcttgaaca tattctgcag tcgatgacag tccggagcca tatcagaatc 420  
 gtactgatac tgcctta 437

<210> 29505  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29505

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tgtatgaatt attttcgaat tataaaaaatt tataaattaa aatataaaaa aataatattt 120  
aaatatatttt attattntaa tttacaggta ttttaatttta tcacaatatt ttattataat 180  
ataaattaat atattattat atataaaaaan ttgttcttat tntattatga ttntaaaaaa 240  
actacataaa ctaacatata gattatntaa taaaattatt ttatgtaagt tatacgaatt 300  
aagtaaatta aaataacatt tanataatat aagaaattga aaatttatta ttttttataa 360  
ttaanataag aatttgtatt aattatatat aaaaataaat ntacatggct cttgtannat 420  
acataaaat 429

<210> 29506  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29506

tctaccagga ataaatgaag ccgcaactca naattgctct tgcttttagtt attagcttgc 60  
tttggaattca acaatcattt tgtgggttagt atagcaattt gccttttaac ttttgacagg 120  
catgacaata tgttgagtgc tgatattacc aggaataaat gaagccgcaa ctcaatgtg 180  
acttctagtt gtatatgttt tttgtagtta ccatgatttt agccaggcta taatgataat 240  
tatcataatt aaagttaatt atgattaaca taattgggtc agtatgtggg agggggtaga 300  
tgttttaatt tgtgtaagcg tgtgtttttt agctggcaat tgccaaacta taggtaccaa 360  
anatattnta gctggcatat tattaataag aaaagaatct cagtacaagc tttatatata 420  
tatctatata taaaactcaa tacaatcata tntctttctt ctaattntat cttgggtc 477

<210> 29507  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29507

ttctttttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcctta 60

atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180  
gcaagcttcc atcaagtggc aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattn tttctccatg 300  
tatctcctca catgtcttgt gctaaatggt gttaacatga ttctttaag tttccaccaa 360  
ttaaacttgc tatagatgct agaaattgat ttctatg 397

<210> 29508  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29508

tatgctgcan atatttacia tagacctcct caatctcagt atanaaatca accacagcag 60  
aacaattatg acctctccag caacaaatac aacctggat ggaggaatca ccctaaccctc 120  
agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgtagct 180  
ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacaa 240  
ccaacagttg aggcccttcc acaaccttcc ctgaagaac ttgtgaggca gatgactatg 300  
cagaacatgc agtttcagca agagaccaga gctccattc agagcttaac caatcagatg 360  
ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgctctct 420  
caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tg 462

<210> 29509  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29509

ttctttacat gcaatgtatg aatntaaaaa aaaaaaagta aatactggag tctgactctt 60  
ttacataatc aagttagtga tatctcaaaa aaaaaaagt agagtataat acacatttat 120  
atatgtcaga gcatgactnt gtctcacaat ataattaatt atactatattt taaaaaatat 180  
atgtaatgct aaattaattt ttataaaatg aaaaaatatt aatttatcaa cttgtgcatc 240

atacgggaac acacactaat aacttttaaat taattattaa gctctgggta gtatatatgt 300  
 taaactaaag tcatattagg tcttgattga gtcttattag gggccaatgt aattattata 360  
 tttgtataat ctgatataat atctttttaa naaatataat atataagatt aaattcta 418

<210> 29510  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29510

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 ccacatccct gannnncgac ggtgatccac tgcgccagca ccaccagaga gggaggctat 120  
 cacgcagcca ctatgcatac cggggcaaga tttcacccat gccgctgcaa agagacgagt 180  
 gtggatcatg tgtacctaca tgaccccttt tacacagata taaaagacga tgctacaaaa 240  
 gaacattctg cccagcgacc gcaatgecta tctacccta caaaagaatc agaaggtctg 300  
 tgtagaccag acatgggtaa gaatgcataat ggttctactg antaatgata ccaactatag 360  
 attgctggga tcgcacccac aaagaca 387

<210> 29511  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29511

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 cctagccttg caacaagtcc tagggaagta gatacggaga tggacaagaa aatctgcagt 120  
 attgtgagta gcattttgaa agacgcctct gtgcctgaag ctgatgaaga tgtcccaaca 180  
 tcgtccaccc canatgtttc tgtgcctgat gtcaataaag atgttccaac atcttccggc 240  
 ccanatgctg aagtactctc ttccccagc aaagagagat caacagagga agatgatcaa 300  
 gccgcagagg agactcctac accacgggca ccagaacctg ctccaggtga cctcattgac 360  
 ttagaagaag tcgaatccga tgaagaaccc attgcanaca ggttggcacc tggcatt 417

<210> 29512  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29512

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 cattaaccta gggaattaaa aaaaacttaa tggctgagtg taactgaaat tgtggcaacc 120  
 aaaagtcacc cccaacagcc aacaagacag ccaacaagtc agccacaatt tggctctcca 180  
 aaaggctgat gcctaggttg ccagaattat ctctgtggcca taactcccat tttacgcact 240  
 caaattaagt gattcctgag cctaaattga atttcaaac gagacctttc accacgtttt 300  
 ggaatcacct catttgagc cttgtagctt gagttattgc catttctata tttctgtcca 360  
 gccaccactt aacctacgtt ntaccatccc attaatccat tntatgccaa gaaccacctt 420  
 attaagaccc acganattaa ccaccttaat tttcattctt aatcattntc cgcattntcc 480  
 atcaagggtt aatcct 496

<210> 29513  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29513

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 tgaatcgcac gtccacttgt aactccaaag tatcaaacct ttcacaaaca aaggtttgaa 120  
 gaccatcgaa cctgtccaaa atcttttgaa gaagagagga atcttctcca ccatgtaaat 180  
 gtccttcttc atcaatgggt tgagcaccct ttntcaccca agagctatca tgctctttac 240  
 ggtaaccaa ggatgcaatc acaacaacgc ctattagaaa ggatctcttg attggaacat 300  
 aacgtttaga atcaagagg atgttgaagt gttgaaggaa gagagtgact angtgtggat 360  
 atggcaatgg agcatntaat cgctatgcct tatgaatgcg atat 404

<210> 29514  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29514

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taaattaaac taagcttcat cctcagatac ctcttggttg actagactta cttacatagc 120  
ttacgaaagt ttagactaat ttagcctaag ctttttctct agatccctct tgttggacta 180  
gacttagacc aaacaacatt attgtaacaa catattttaa accaaaactt aatccgcaaa 240  
tcctcathtt aagactaagt ttcaatcctg cttcattcaa gttctaaggc aaaagtacat 300  
ttcccaatgc taaagtcacc taaccaagca cacaaatggg tgatcagacc aagagcatac 360  
agaatntaag cactaaaaga atcattagac acaagaaaca caatcaatta gatattanag 420  
taattacatt agttgttctt t 441

<210> 29515  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29515

agcttgtaat ttttatattn gaatatattt gnatgggtcta tttatgtaga tgtttatatt 60  
ttgataaatg aatagtttta ggtagtgtaa gataataatt ttgtatagtt tagtttgaat 120  
tcttaatggt atatgctaca ttagatttag tttaaatctt ttttatgata aattaggaat 180  
agttttacat actctaagtt attaattgta tatggtagat taggaatagt ttacattggt 240  
atatgataga ttaggttttag ttgaaathtt ttgtataata gattagaaat agtttgaagt 300  
accgtaactt attaattcta gattagcttt agtttaccat ttntgtccgc cacgttgcgt 360  
aataggattg aaggtctcct ctacttcaaa ccttgtggag tggatgtcat acacgcgaac 420  
gatgtgcgaa caa 433

<210> 29516  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29516

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 tttggttaat tttagctctc tgttcggagt atagacgacg gatgatgtcc acagtccacc 120  
 agtctttgtc atctctctgt gcttgteett tntgacggca aagaaagttg tatatgactc 180  
 tgaatgctag atggacttgg agatggattt tggggagcca taatgacttt ntatgtgaag 240  
 aatttgattt gttgctgcga ttcttgacct tttttggggt taagattttg gaccattgta 300  
 ttccttccaa ctcttagaaa atcttgctgc tntgactgtg cattgcaatg agccaaggaa 360  
 tggcggagag agtanggaca ttgttgcata gtagtgggta atttgtatga caactgttgt 420  
 tagtagaatg tatatgtgg 439

<210> 29517  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29517  
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 ggcacaattg gatgaaagca agagtgggtt tcgatatctg tactctatgc tacatttgct 120  
 tgctaaatgc gcagcagaat tttgtttagt gcaaactaat gcttgtgtat ggctgggtgt 180  
 gaataaggta gcacatatgg gagtctgaat atttgctaga cgatcccaac ggtcaaaatg 240  
 tagacttatg cactagggac ttccagtaca tatttcaagt cactccaacg gcgaacgaat 300  
 tggaacgaac gaaatgctac tgggtgtcttt aagtgaagaca aagctgcgat tcttggttt 359

<210> 29518  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29518

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 aactagctca acaaggacgc tgtgtacntg ctcgatgaat agtgcttgaa cgcattcaac 120  
 actatataga ccagcctagt gtctactacc gtcattacaa caccagattg gagccaagaa 180  
 tttgagctca tgtgtgatgc aagtgattat gttgtaagcg ctgtattggg ccacaggaag 240  
 ggtagagttt tccatgctat ctattatgcc aataaagatt taaatgatgc tcaattgaat 300

tatggcacca tatataagga aatgctcagc cttgtctatg ctctggagaa ctcagatcat 360  
acttaggtga tcaaagttat tgttacactg ac 392

<210> 29519  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29519

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aagtccatgc aaaaatatct aagttcattt ggtattcggg aaaggccttc attattttca 120  
tcctcaatat ttttttcaaa aaaaaccatt tgtcatgttc tgatccaaaa atatatataa 180  
caaaaaaact ggttggtgat tcttttcaaa gcatgtcatg ttcaagaaag attttttgtt 240  
taagtcccaa aaagagttat aatctacaac tacaccatca gaatatcaaa gcatgcataa 300  
attaatcaga ataatctcgc gtaagttttt attcaaaaaa ttcagatcaa agtaataaag 360  
tactgatatc taatacgaag cgatgaataa acatatagac aagttctcaa atttcanatg 420  
atcatggcta aggaactca 439

<210> 29520  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 29520

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atgaccctag ccatcatcaa aacatcattg aatcaatctt aaatgatcat gaagctgtgc 120  
tcctacagac gtggttgacg atccttagcc gatgtccagt catgcttact aactcatact 180  
atccgtgact ctaatacttg agctcctatc ttagataagc tgcattgctt agagaagtga 240  
gacgagattg tgatgctggc gacagatagc gtacaggatg tcacgacatc acgc 294

<210> 29521  
<211> 469  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 29521

ggcatgcaat gtcttttata tactnnntgt acaagaaatg gaaaagctct gatacnncac 60  
ttggtagaa aacaagtggc cctcagaata ttcttanaga aaggggnngg ttgaattana 120  
gaatanntca caaacttatt ccctttaatt aaaaattctt aatttgattt ntaacccaaa 180  
tcctaagatt ccttttaaaa tgaattccta aataattatt caaattaaac ttactgaata 240  
gaagcaataa gcaataataa ataaaagagt ttaagggag agaaagtgca aactcagttt 300  
tatactagtt cggccacacc cttgtgcata cgtccagtc ccattgcaacc cgcttgagag 360  
ttccactcaa tcgcaaaaac cctttacaag ttctgaacca cacaaggaca acccttcctt 420  
tgtgttcaga tttctttaca acaagagacc ctggtctct taatccctt 469

<210> 29522  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29522

ntaatcaa gtttagtaat gatccactaa cctagaattt taagaactta atgccactaa 60  
cctaggggaaac taaaagaact taatggctga gtataactga aattgtggca accaaaagtc 120  
accccaaaca accatcaagt cagctaccat ttggtctccc aaaaggctga tgccataggtt 180  
gccaattggg cccttattac aactttaact aaatcaaact aaagtcgttt tagttgatta 240  
accaaaaaca tatttttttg gtcagccaac tttacaagga ttggaccatt atttagacaa 300  
actaaacact ctaaaattga gacagagtgg tgccatttag tcctcctcca tttgagccat 360  
gatacaactc acaaccttgg acttttctcc ttgaaacttg agcttgattt caaatagtgt 420  
ggacaacact tggtgaagaa gcttctt 447

<210> 29523  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29523

agtcttttca tataaataat aaaatcatct cggctcaaac aaggtcgtcc aagacttcat 60

gcaataaata tagaaaccta taccctaattg ttacattcta tcagaacatt gtgttcttac 120  
 atcctctagc atgaggttct ccatagtcac tcattctaacc atctgtctct acgaacacaa 180  
 agttcgaaat catcacaaga tccaaacaca aatagcacac ggngagtggag ttatcacatt 240  
 cctaactagt agagagaaac gagacaacta gatatacata tcattgtaaatt gagatacaac 300  
 ttacttaaac atagctcacg taattccgcc actgtgtcac ataacatcac atcattcacg 360  
 tactcaaaga tcanaacaca atatcactaa atcaatcaat atcaataaat acgcaagcat 420  
 tatgcaatag atac 434

<210> 29524  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29524

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 ccttcaacct cctctagtgg aatttctctt tttcaaaact atcataatct gatgagatga 120  
 atttgtgatt tgnnggttgatg atttgtggct ctttacttgt ttttaagttat gttcttggtc 180  
 tgggttatga attatgttct tcatttggat tcttagatgt tgttcttgcg tttacaaaat 240  
 aaacatgttt aaagaaaaaa aagtattttg tgatgacttt taactgctaa tggagctaga 300  
 tctgtcttga cggaagaatt gttttgaacc ttttagttaa gataaataac caaagtgaac 360  
 tttttttaa aaaaataaac taaactgaca caaaaagata aaaaaatcac ataagttatt 420  
 tagcctacaa aatgacatgt aaccaacatt ttggacacct ttattacaat ttacacagta 480  
 ctaat 485

<210> 29525  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29525

ttctngttgt gagaaagcgt ggaagagtca gtcttcttac tttagtttgt tgaccacaga 60  
 gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120

attgccccaa accaagcttg gctaactctg acccaacccg ggcatagtca gtcagtgaga 180  
acctgcgacg tacctatgca ggcgagctcc tgacagtcaa ccaataaaaag aacaaagtcc 240  
acaaatcaag gaggccttggtg tggcggctgg ccagctatgt atcttgagtg gtatctggaa 300  
tttagcctct agtaatcgat taccattcat gggtaatcga ttacaaggct taaaaatgga 360  
gataggatgt taaatggttt ctggtaatcg attaccaatt gtgtgtaatc gattacat 418

<210> 29526  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29526

ccaagtttct ataaataggg ggagaagtga ttgtgatata gggttcggcc cctgagacac 60  
ttctctctct ttogaatttg cttggaaaaa ttgtttccgt gaagaaaatc taagccgagg 120  
cgcttctaaa acgtttccgt aacgtttccg taaggaattt tgcaagggtt tcgaccattc 180  
ttcgacgttc ttcattcttt cttcatcggt cttcgatctt caacgggtaa gtacctcgaa 240  
ccaagctttt tgattcattc tatgtaccgg tgggtgtcca cattgtgttt cgtgtattct 300  
tattctcggt tcatttactt tgtatacccc cttttgacgt gcttacagca ttntatctaa 360  
gtcatttctc gcttaacctt caactacaac acatatccac cgatcgttcg aattgtatta 420  
tct 423

<210> 29527  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29527

agctttcttg atanaattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
aagctcacc ccatgacaaa atacatgaaa atacaaaaaa gtccctacta caaagactac 180  
tcaaatgcc tcgaaatata aggctaaaac cctatactac tagaatggcc gaaatacaag 240  
gcctaaacaa aggtaaaatc tattctaata ttacaaaga taagcaggct catacttagc 300

ccatgggctc gaaatctacc ttaaggctca tgagaaccct agggccttcc cttggatctc 360  
 tggcccaatc tacttggagt cttctatcca atgcccttgc gggatatgat tgtatcattc 420  
 ctccttctt ctcatt 436

<210> 29528  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29528

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 gttttttttt tcctttgaac ttatccaaca tagtggctct gattntgtaa gcactttgtg 120  
 tttgtgtttc tgttcatatt aatgaagttt ggcttgtgct ttttctcaag ttactattat 180  
 agattaattt atcaggatta tggccaattt taattcttga aaggcatttc atgggtttat 240  
 ctgttcttga attagtcaaa gacgcttcaa cagtaccatt tttttgtcct tttcatatct 300  
 atgatgaatc ttctagttn ttttcttttt ggagtgtgaa acctgaatat tntgtgctaa 360  
 atagtaaata gtaaatagta aatatggngg tgcaatctca ttacttaaata aaaatctt 418

<210> 29529  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29529

actcagcttg ctggttttagc aacttgcagc catcattttc tttgtggaga atgggtattg 60  
 gagctggctt ctttctggtt aattatagcc tgatagtttc taactacagc aatattccta 120  
 attgcatttg attctttatc tgactataat ttgagtaaata cctaaaatgg ttatctttta 180  
 tgttttcagg ggtgaccatg tcaaattagt gagggctgga aagcatcagg tctgatcgca 240  
 cacctttccc ttgtaaaagg tttttttttt tcatgaagac attgtttcat ttaaagttat 300  
 gctacaggtg gttnttcttg taaaaggacc aatttacttg gtctgcatca gctgcacaga 360  
 agagccttat gagtactaa gggggcagtt ggagcttatt tatggccagg tataatcggg 420  
 ttggatgctt gtatgtccca atanaaaaaa tgga 454

<210> 29530  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29530

atcnttttctt acctatctat ctcccaaagt tctttgcaaa gattcaatgg ataaaaaaca 60  
 tgaagttcta attcaagatg ttttctttgt tgcattgggca taatgcaatc actctatgtc 120  
 tagcaatgat tttattaaga tgtccctacc tttgagttct actaaaaatt atcctctctc 180  
 gagcgactaa tccctaaaac tgatgcataat aaaaccttca atgtatttct actaaggatt 240  
 accctctttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacattt 300  
 gttggca 307

<210> 29531  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29531

ttactcttcg taaagccgag accactcaca ataaattgac cctcatgtga tgcttgngcc 60  
 gacctaatca agccattgag aatcgcgta ttactatcat acatctcaga gagagagaca 120  
 atgaagcatc gtgacacata gcacgaccaa gcatacaact aacacatgcc ttccgtagcc 180  
 aaccaagggt gccatggagt cataacttga gaactctatc tacttcatca cacatatata 240  
 tatacatggt ggaacaatgt g 261

<210> 29532  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29532

natttctttc tccctatntt cctataaata gggggagaag tgaaggaaaa aaatgttgag 60  
 ccctcctggt aattcgagat cacttgatat tagtgaaaaa aattgtttcc gtgaagaaaa 120

tcgaaaccga ggcgcttccg taatgtttcc gtgggtgatt tcgcgaagat tttcaactgt 180  
tcttcgacgt tcttcgttcg ttcttcgtcg ctcttcagtc ttcaaccggg aagttcccg 240  
aatcaagctt ttcaattcat tctatgtacc cttagtgggc ctcatctgc ttcacgtgct 300  
attattttca tattatatac tttgcgtacc cccttctgac atgctttagt catttac 357

<210> 29533  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 29533

acgaaggata cggaacttag aaaaactaaa tccttaatgt aaggagtacg agacaaccat 60  
agcgaattat taaacaaaat cggtagttta cttaagggtca ttccagaaac taccataact 120  
tctgaacata catgcaaaat ggtaacaata agtacctcca atttaataaa tgttattaat 180  
gaagatattg accaaaactg agaaaatgca actgagatat gatcagtatc agaaaagaat 240  
ataaatccaa ttaattccca cacaggaaaa accctctaaa tatatatcaa cgtcaactgt 300  
cctaccttct ataaagaaga aggaatcaat ttaagagtta gtgcaacaac attatagtgg 360  
acatgatgcc agaggagata catcatgata cctc 394

<210> 29534  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29534

agcttggttat tgactcattn tcttgaagga agaaagttcc ttgagtggat gttgaagatg 60  
aaaggaagggt ggggtggatgg ggaagcttgt tgtggaaaag aaattctaaa attttagtgt 120  
gtgctacaaa gtgtttcatt atcatgagag aaacaaggga ggaatttttc gctaggtgtg 180  
ttgtttaaag agagataatg agtttaatat aaagaaacaa aatgacatca tgtggattat 240  
ttcgtggcat aattaagctt attataatat agtaaaccac ttttagcaagt gtttaattgtg 300  
agaaggggga gacatgcaat cagctagagc aaaggctcct ctgctcaagt ctctaattctt 360  
gaagatctct atgcaaaaata gtgttttaca actcanatca nactaatnga tttgatcagt 420  
ttaagcgaca act 433

<210> 29535  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29535

tgccncaaga tgaaggtttc ttgtggacga gggcatgctt gtattgttcg atcatgcat 60  
 tcanaacttc cgtttgtcca tctgtttgtg gatgataagc tgagctcatc cgcaatttca 120  
 tgtegtcat ctgaaacagg tcttgccaga aaattgctta tgaataatgg gtctctgtcg 180  
 gagatcaagc tgcgtggcat gccatgaagc tttctgacga tgtccatgaa caggatgacg 240  
 actgagtaag ctgagtgtcg agttggcagc atgcctaggt gtatgccttt tgaaaatcga 300  
 tctactacaa ccaatatggc agtatttctg tgaatcggag gtaggcctgt gatgaggtct 360  
 aagggaaagt cctcccatgg ccgacagggt accgataatg gacataagag accggcagac 420  
 ttcttagtct catacttagt gtgttggcag tcgacacagg ttgctacaaa acattntaca 480  
 tcttttct 488

<210> 29536  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29536

tcactcgacc cggatcctta agtcacctgc ngcatgcagc ttattttgcc atctatggtc 60  
 ttaaacaatgc nctagagcc tggtttgata aactcaaggt gcacttctga agtttgaatg 120  
 taagtccagc aagtgtgatc cctctttatt tgtctactcc aaagggtcct caacaaccta 180  
 tatgcttggt tatgtagatg atatcatcat aacagggaat aatccttctt taatcaagca 240  
 actcatctct aagctaaaata ctttnttctt tcttaaagat cttggttctc tagactatct 300  
 cttgngaatt gaggtaaaac atcaatctga tggatctatt gttctcactc aaggaaaata 360  
 cattagagac ttgttggcct anactaatat gacagaagca aaacctatnt cttcacctat 420  
 ggttactgga tgtaagctaa ctaanagtgg atctgatcca ctactgatc cat 473





<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29539

tcattcttat attctancat aatccaatat ccagaagact ttgataggga agttagaatc 60  
ctagggaag caaggcaccc aaatctaatt gcattgaaag gatactattg gactcctcaa 120  
ttacagcttt tagtgaccga gtttgcccca aatggtagct tgcaagccaa gctacatgaa 180  
aggcttcctt caagtccctc tctttcttgg gctataaggt tcaaaatctt gcttggaaca 240  
gcaaaggggc ttgctcattt gcaccactct ntccgtccgc cgatcatcca ctacaacata 300  
aagccaagta acattntgct tgacgaaaat tacaatgcc aagatctcgga tttcgggttg 360  
gctcggcttc tgacaaagct ggacaggcat gtgatgagca acaggtttca gagtgcatta 420  
ngatatgt 428

<210> 29540  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29540

gcatccatta tccatagnga gaacacagat gtgtagacta ggatgggttg tggttgaacc 60  
aaacaaatac tgtgctaagg actgcagaaa caactatctg ttcttattag gttaatatct 120  
gatatgtgaa ccattgggtc acacgatact aaattaatgt tttgagggga ggatccacta 180  
cagtagcttg ctaagttgct actgaagccc ttatgtgttg ctcatgcgtt gcactactac 240  
atgggcttgg acacccgact aaaccagttt ctaagttttt atttggagca tgatgctagc 300  
aacatacgac tattatagtt aaattacaga attatttcat ta 342

<210> 29541  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29541

atTTTTtaat caaaagacac tgtagtcttt tgaaacataa agcagaggac attgagtcct 60

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atgaaaaaaaa acaaatgacg ttgagtccta ttgtcataacc ctgatttcgt ctgaggattg 120
tcatttccta aaattntcaa ccttgctagc cgaattcagt tgcttgcgct acttgccatg 180
caatacaaaa ggtttttttaa cgtttatgaa aagaacatga aaatacccaa aggggagggc 240
aaaaggggtca ttttaagact ttttcaaacc cctggctcgc ccaagctagc ctctggctca 300
cttggggccat cgagataact tcatggtgaa gtaattagcc cgcct 345

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<210>      29542
<211>      468
<212>      DNA
<213>      Glycine max

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<400>      29542

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gggtcaggaa gcacaacttc agtcaagcat ttcaagtatt atggatcctt atgctatagg 60
catgttcttg ataagaggag aaagaagttg gatgacaaga gtgagccaat gattttttgtt 120
ggatacaact ctactgggttc atacaaacta tacaatccaa agaatcaaca agttctatatt 180
agtagagatg tctactttga tgaattaagc tcatggggag agtttcaacc tacttctgag 240
acaatacaga agattcatct tgaattgaaa aatgatgac cagtaggaga gatacatcaa 300
gaagtgggtca ataacgaacc ttagatgggtg gttgatagac ctacaagagc caaaagtttt 360
cccttaagac tcagagatta tcagggtttac cctgatagtg caattactga ggatgggtgat 420
ttggtcagca tatggcactt atggcagaca tggaacctat tacttttg 468

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<210>      29543
<211>      434
<212>      DNA
<213>      Glycine max

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<223>      unsure at all n locations
<400>      29543

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atctttttaag tccaagtttc ttctgccata cccagtgat ttctttggat agataataga 60
taacattntg atttgacagt tactaagat tataacaagg tcatgtcttt gcaattttga 120
gattaacctc aagcttgaaa gtccaagttt cttctgccat atcccagtga tttcttttga 180
tagataatag ataacattnt gatttgacag ttcactaaga ttaatcttat aaagatttcc 240
ttttctctta gtggtgaaaa gttgggtccc atttttgtct tggacgacac acccatcatt 300
gccaaaggaa atatcaagtc gactatcaca naattgactt atactaagca gattgtgttt 360

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aagtcctttg aanaatagta cattctccat gggaagatag ggatcaatac ttatctttcc 420  
tactccatca atct 434

<210> 29544  
<211> 475  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29544

taaccattaa gcacaagcca tacacaagac ttaacactat taattacatt taaccactaa 60  
gcagaacccg ccattatgaa acctggcttg ctaggaaaac aaaggggtgca aatattttga 120  
acaattatga aaaggatgag aggtttgcta ggaagccga taattagaaa atcctgcat 180  
tcatttaa at catctgctga tatagacaag catgcagaat catgttaa ac gtttttcttg 240  
tgatttggtt ttgatagttt ttatttctaa atacttatta aacatcatgt acaaaaaaaaa 300  
tgtggcatgg accaggattt ctagagttgc atttataatga aacatataac agtacatana 360  
ggatagagga tcatccatcc tctcttctgt cccgctttga aggtacatg gagcacatgg 420  
aattcatctt gtcaatatag ggatattnta gtgtcaagca agcctcaagt agcac 475

<210> 29545  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29545

tgctttataa ttngattntg nttgagttgt gatgaaactg gtaagttgtg atgaaactgg 60  
taatattgat gataaaatat aatattataa cttgatagcg ctaatatgta attataacct 120  
acaagtgtct gatattctaat ctattaactg tatatatgaa taagttattt aatttttttg 180  
gaaaaaaaaa aaacaaactt gtttaataat taatttaa at aatttcttat caaatgtaaa 240  
ggtgcttctt attaataaat atattagaaa agatatatat tatatggtct taatatttat 300  
ataatattaa aatgttaa ac tcaacttaaa ttgtataaat atttatatcc tanatatatn 360  
tataattata tccatgttac tctacatanc aaaatattta tttttattat atntttaagc 420  
tctttaatta tta 433

<210> 29546  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29546

tctagtatatt ataggtcttc ttcaacaagt ttccattggt tctaaatgga tagatttctt 60  
 cacttgagct tgcatttgaa gattgtgggc gttggagcat ttaatgcttt cattaaatgc 120  
 acatactttt tcatgttgaa aaatcactct ttnttacttt cgtgtggaat acttcaacaa 180  
 aaatcacttc ctttgtgtta gagtaggtct gtcacagtag agcacatctt ttgatgatgt 240  
 ttggcaactt ccaggtcttg agcttcattt tttctttata ggatccgaca caaatccttg 300  
 gagaattntt tttctacaaa acgaatctca nacatagatc aacaaatgaa gtttaaattg 360  
 catcgttact gttgtatcag atcttggctt ggttctaact atcgcttgaa atgannacac 420  
 ggatgcatga gccacgctca natatcacat aagatgtaac ttttaacctt tgcacttagt 480

<210> 29547  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29547

agtctttatt ctttagaaga gaaagaacat gtaattagga ttacgactga naatgctagt 60  
 caatttggtta gattgattgt gaaggaatgc ttttaaccgta actcgggtgag ggtgtgatct 120  
 taattgtgag agaaacgact aaaattaggt aatgaatttt gcatgaatct ctgaattatg 180  
 gaatgaatgc atgaatctga ggatgatgaa ggtcatgttt gattgtaaat agccacttag 240  
 ccaaaaagct gaccatgtgc atgaatgatt tatcccttgc acccagtttg agttgaatta 300  
 atgtttgatt gattgaacct tgagcctgca cagttatctc atgctacctt gtcttangtt 360  
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 agagctact 429

<210> 29548  
 <211> 475

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29548

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ccaaaaaatt tgttttagtg agacaataat ttttttatca atggcaataa aaacaccaca 120  
acaactatca tttatataga tagatagata aatatataacc caaatattgt tattgatcca 180  
taataaaattt ttcttcattt ttgttccttg atatttgaca tggtttttta aattgtagtc 240  
attagttaag tgatgacatg tcactactaa aaaatagggt ttcaacattg gttattaagg 300  
actttccaca tcgggttatta accgatgatg aaagtaccaa cgttgaaagt aatatcgtta 360  
acatcgattn tccaaaaccg atattaatat aaaattacaa catcggttat tgaaataact 420  
gatgttatat aataagaatt ataaaanaaa gtaatatatc ttcatatcaa catcg 475

<210> 29549  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29549

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gaatgccccg gcttctgtag atcttgctta agtcaaaatt ctatcacatg gacaaatgtg 180  
catttcttct cactgtcttg cagacaagat tacctcgcta atattgggta aaacgttcat 240  
taccggttcc atgaccttaa gtatggcttt ccatttggt catgtattga agaattctga 300  
cgtggcaagc tcatccatgc catatcatca ggcaccaggc cactangtgc ttcacgtcca 360  
gtgaagtaat ctaatggacg agaagccggt ggtgcaaccg tggtcacct tggtgtacct 420  
gcatttacta atc 433

<210> 29550  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 29550

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 ttacctttct tagcttttca ttggagagtc atcaaccttc aggcctttctc ttgctagtag 120  
 cattcttcat gaagttctct gtatgttatg catagactca ttctatttca tgacttattc 180  
 tagactgagg acctcaattt atcacatttt gttaggggtc agtcagaaac tagtacgata 240  
 ggctatgaat tctttgttaa taattntagt cttatttcta ctgagcttcg agcttgtact 300  
 agtaatacta cacgacttan atagtanaac taagagcatt atgctacacn ccctattatc 360  
 agntatcatg ttatctatag tctataactca atactgttgg tacctggctt ttactttctg 420  
 ctctaatacct tatgacccac aatgggaaag atgtcaatnt cttaatacag cacaac 476

<210> 29551

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29551

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 aagaaactac tgtgtaagat tttctttttt tccttgtagg tgttcttgat ttgtgaatct 120  
 cacttaaatt ttgagcttaa tatgtggcat gcattgtgaa tcacattttt aatctttatc 180  
 agctaagttg agttgtttat gtatgttgta gggcctttca aggagaaacg aagcaatgag 240  
 cttaaattct aatagctcan aatcacatat aattntcaca tttgtcattg agtctttgtg 300  
 taaggtactg tcacaatttg taattctacc taacattacc agcagntgtg tatggaaa 358

<210> 29552

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29552

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 tcttaagaca gcaatgtaaa gatgtacggt atgataatag caaggcaa at tgaaatagaa 120  
 tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180



catagaaaca ctccccata cttaacaaca cat

393

<210> 29555  
<211> 388  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29555

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agtatgacag tcaccgctnt aggagctgct gttacaccag cacgcgcttt ctaggccatt 120  
aagggatggt cgtttctctg ggagcgacgc gtccagctca gggatgacga atatactgat 180  
ttccacgatg aaatagggca ccggcggcgg gcatcactgg ttactcccat ggccaagtgt 240  
gatccagaaa tagtctcttg agttttatgc caatgcttgg ccaacacatg aggggtgtgcg 300  
tgacatgaga tcctgcgtaa ggtgtcagcg gatcccgttt gatgccacg ctatccgcca 360  
actcctaaga tatccgttgt gttggaag 388

<210> 29556  
<211> 344  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29556

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aggagaagat gaacctagct gctagtcata tgcagaggct ggaggatgaa catacgaatg 120  
tatcagctct gcanattgaa aggggaagcaa gagagagggg gatngaataca tttcacgagg 180  
aagctatgaa atggatgaat aggttcgctc tctactctgaa tgggagtcaa gagctcccaa 240  
ggttgttagc cagagccaat gcaatggccg acgcgtactc ggctccagat gaagttcatg 300  
gtcttttcat tactgccaat acatgggtga actaatgacc caca 344

<210> 29557  
<211> 567  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29557



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 cccccccct gagtgacgct tgatactatg gaacactccn gcnnccgacc cggggtcctc 120  
 tacagtccat ctacacgcac tctaacatag ctgttttggg atttattcgg cgacacgatc 180  
 caaccggagc taatatgacg catatctgat catcttgcgt tgatcaaagc aaataacaaa 240  
 actgcggggcc tatgaacagg gtgacgatga tggagaatcc tgcgttgcgt ctagccatcc 300  
 aatacagcca tgtatcctac cagcccagca atgtcgtaac tcacgccata acaaaccttc 360  
 tccgtaccca ccgcccagat agtcgaacag gccatcccta agatcaccca cacagcctac 420  
 ctacacaact ctcaatgaca aacaccgcgt gtacgccaga ccacacatca accaagaaat 480  
 gaatctccta tgagaaacct taaataaacc cccatccaga gcttatctga cttagccctc 540  
 aaatattgaa agtcacggaa ccctccg 567

<210> 29558  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 29558

tacattctcc cactttctca agcaaattct taattcttct tgatatcatc aaaatcttca 60  
 tgatttaciaa atatgtttta taacagctac taatatttga attcgatatt ctagactgtg 120  
 taatcgatta cacaattttg gtaatcgatt accagcagtt aataaacggt ttaattcaaa 180  
 ttttaaaagc tgtaatcgat tacacaattc ctgtaatcga ttactagaca ggattttcag 240  
 aaaaatattt ctaagagtca caacttttca aaggctttat tcatgactac caatgatcta 300  
 tatatatgtg acttataaca cgaaattgct cagaagtttt cagaacaaca agtgttttatc 360  
 ctctcaaaga gcaaaatcat tttatcctct taagaattcc ttggccaatt caatcgcaat 420  
 tcattaatga attatttgag tgctcaatct gtaaaatcta tc 462

<210> 29559  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29559

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 ttgcttatgg aacactgtta taaatgaaag gcagaactaa tctagggcta gaaagtgaca 120  
 atgtggtggt aggagtggaa aaagagtga tgttttatgg ctggaagggtc aaatctggaa 180  
 ttggtagtat ttagagggtta gagtgagtt atcttagctt gaaatgccat ctagaacatg 240  
 tgagaaagggt taggctgtgc tagagtgaag agcaaagtgt caaagtgaac caagagccat 300  
 ttctagggca aaattgggtg ttgaggagtc atattntgat tctgtggaat ttacgtgta 360  
 catccagttt gagcaagtct agattgatgt tat 393

<210> 29560  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29560

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 acctggagat atgtcgcggt ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag tgagaacctg 180  
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcaaggatg cttgtggtag ctggccagct gtgaaacttg attgatatgt gagatattgt 300  
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360  
 gggctaagat ggtctctggt aatcgattac cagtggatgt aatcgattac caggcttgan 420  
 tacggagtca ggaagctaag ggagcctctg gtaatcgatt accagcctgt gt 472

<210> 29561  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29561

agcttttcca ttatgaaanc annganatga gtgagttgag acattatatg ttaatgcaca 60  
 caaatcattg tagtatctac acgaaaagggt agatacttaa aggtagnnta tccatccatt 120  
 ctacataaat gtttgttttc atattattaa tatttatata acaaatagat atattaaata 180

tataaattac attgtaatta aaatttattc tagataaata ttaataattt aaattatgat 240  
 antaaattat ttttaattggt taatttagag atcgataaag atataagaga gacacataaa 300  
 ataagagtac tctaatatgg ctaatagaga aagcttttgg ctagctagct aagcacatgg 360  
 tatgtaaata tacattttaa gatatgaaga tcacataaag agaaa 405

<210> 29562  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29562

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 atatgtgata agttctcatg tgtgagccaa gctgcttaa atcttaaggg ttattttccc 120  
 ctanaatgag agagatcccc acatataagg agaataacga tgagtgttag tcattcctct 180  
 atccaacttt ctagcaatat aacattatga ggagtgtac gaacacactc tctaccaatg 240  
 aacctataac gaataccttc aacatgctca ttaggcatca tgggccgaat aataggattt 300  
 tgcacaagat ctttggtatga agaaagacct tacatgtgct gtgtccact tattgaatct 360  
 tgtacgttca tgggatgtta cgttgtntaa ctatggtcgc tgggtgatga gggactcga 420  
 catcctttat tggcttaatg gctcgttct tggccgaata ttatatca 468

<210> 29563  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <400> 29563

agctcgctc attgaggttc aggatggaca atgcggccga atgaactagt tccgccccgg 60  
 agtacaactg tcaccgtttt atgagcgatg gcaccgagca cgcttccaag ctatcaagg 120  
 atggtctgtt tctgcggtaa cggcgctgc acctcacgga cgacgagcat actgactttc 180  
 atgaggataa aagacgcccg cgggtgggcac cactgagtac tcctatgggc acatttgatc 240  
 cagaaatact tcttga 256

<210> 29564  
 <211> 445

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29564

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aagggagaga agttgaactt tgagtttgtt ctcacaagac tctcattcat caaagttaca 120  
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180  
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240  
acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta 300  
gctacacaca cccatctaan aactaagctc acctccttga ctaaatacat gaaaaaaca 360  
aaaagaagtc cctactacaa agactactca aaatgccctg aaatacaagg ctaaataact 420  
atactactag aatggtcaaa ataca 445

<210> 29565  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29565

cagctcggac cggggatcct ctcaagtcacc tgccgcatgc atcttgagct tttgcatang 60  
ggttcgatgt ggagtagcaa tgtgtgcacg tatcatgggtg caacgagagt tggatgatggg 120  
cttgggcttg tcatggatac gtgaactggg ccattcctcg gaatgcaccc aataacgcaa 180  
ctcacttttg acaagcctaa gtttgtgctt tgttttatat taaaatcatc ttgatggagc 240  
taatttttgc ttgttgttct ggtgctttta tgataaaact aaattgatta attgaatgac 300  
attgcaggta aagttctata atgcacccaa tatacctgtc attcatatat tgaaatt 357

<210> 29566  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29566

nggcagatat agtctagata gcaactcgggtg attgaacact gcttttggtg catctacatg 60

tagaagaaca caagacgtta gcagctgaat aagaataatt aaacaaaaga atgagaggga 120  
 atgcagtggc taaaatacat aacactatgc ctgtaaaca ttaaaagtta tgatataaaa 180  
 gtacatgtta ctcttacaga tcaaaattta gattatatcc tccacaccag acttacatct 240  
 atatatgatg gataccatt agtaagtga gtaagttggg ntaacaaata atgcatgttg 300  
 cctactaatc ttgtcatttg tgagagaact gtggcctttg ggcattggga agttcaaaca 360  
 ctcaaagttc tacaagttta tatctcttat cttttctgat aagatacgat gtttctatta 420  
 atatactnta gcaacacaaa gacattcata tac 453

<210> 29567  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 29567  
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 actctcggct atgggtttatt tctaaaattg gatttcatat ttgcaaaaaca aacaaggcta 120  
 aaatgttatt cgtttttctc tatcaccaaa catacattat atctatatat attgtgagta 180  
 ccagaggtag taagcattac atgtaattag attgacttgc caccaacatg gttccaagct 240  
 acaatcttat ttgtattgga cgtctagtaa tgtattgtat atattggtag cattctatca 300  
 gcggagtcta ttcgagcttt ctttatttga aata 334

<210> 29568  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29568

tactaaggca cctgttctag ctacgtatga cttttctaaa acttttgagc tagaatgtga 60  
 tgcctctgga gtgggagatg gagctgtatt gttacaaggt gggcacccta tagcttattt 120  
 tagtgaaaaa cttcatagtg ccacctcaa ctacccacc tatgataaag agctttatgc 180  
 ctttaataaga gccctccaaa ctagggaaca ttaccttgtt tccaaggaat ttgtcattca 240  
 tagtgatcat caatcactta agtacattag agggcaaagc aagttaaact agaggcatgc 300  
 ataatgggta gaggacctag agcaatntcc atatgttatc aaatacaaaa agggaataac 360

aaatgtggta gctgatgccc tctctangag acacacattg ttttgctccc tacgagctca 420  
aaatttagga tttgataata ttanggactt gtatgc 456

<210> 29569  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29569

agcttgatta tgaaattggt atacatacgt actaatccaa taaataatca ctaaataagca 60  
aaataaaact aaaaattgtg acttttgttt ctcgatcggn tcaaaggtgt caacttggaa 120  
gcaatggaca catagtgggt ttctcagaag aatgttctga ttgaattccc attaagtctt 180  
aaggtccttg cagttgatca tgacctcact attcttgata acattcttaa tatgtgttct 240  
cgatgccact atcgcggtaa tttcaattaa ttgttactat ttcttgtaca aagatttgat 300  
ctttttttat tgatgattgc gtttatgtcg caactgtggc atactctgat gcctcacttg 360  
ctattttgcg aggaaactct ggagtcnata tcaaccacca aaaaaacaag attctg 416

<210> 29570  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29570

tgagccaata ttaggaacta agcaatgtat tctattttca caattattgt gtnnttcact 60  
ttagcttact caaaattcta agctcaacta atagtcacta aaaataaata ttttagcttt 120  
gccataaata aggcttgact gccatttaga aagtgagggg ggagttcttc atttggcatg 180  
aattcacagt ccatcgagag gggaagcttc ctttgggctc cactcttcat ctttttctc 240  
cctccatgtg ttttgaggct acccatggaa atgggtagct aaatcctcca ccattggagt 300  
tagatgcaac caaactcata ttctcttcta tcttttgata ttntaatata tatatatata 360  
tatatatata tatatatagt attaagtta gtatttgctt ctttatttaa tgtctgttgn 420  
ggaatttcca accatggcat gttttaggta cttg 454

<210> 29571  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 29571

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 ttatccttct tgagattaaa gaatgcggat gggacattct ttgctttgta aaaaaacaaa 120  
 aaaatggatt gttttctttg aagtccatga actagtttgt tgatagaggt gtgattagcc 180  
 tgtctaataga tcctttacat ttacatggaa ctggagggtcc tatgacaagg tccaagacta 240  
 agaggatgaa gtaagcattg caaggcctaa tcctaaa 277

<210> 29572  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29572

tgccacccag ctgcgccagg cgagctaggt tgcttcctcc agattgcagg agaacttctt 60  
 ggaaggccct gggtgctatt tgcaccccat tttactaaa tgcacccctt tgctcttttt 120  
 gctgattctt tttccgtaac gttatggaaa cttacgaatt acgtaacgat acttgttttc 180  
 cttccgtaat gttacggaac cttacggatt acataatcgt cccttttttt cttccggag 240  
 tgttacgaaa ctttacggat tgtgcactaa cacttccttt taatttccgg catgtcacga 300  
 aacttcacgg attgtgttac aatgctttct tttgacttcc agcatgtctc ggaacttcac 360  
 aaattgccta acgatgggtg ccaagtacct cgaagtgtgc aaacgagggt cgcacccaa 420  
 caatggatgg tccccagacg atattanggt atgacaca 458

<210> 29573  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 29573

tatggagatg cagcggaaga tcaaggacaa gacgcgagag gagacgccat ccactagggga 60  
 ataagccatg gaagactgag gttctccacc aagaatgtgt cttggataag aagcttggag 120

agaatgcttc aatggaggat aagacagatg gagagaacga gagacgggcg agcacgagat 180  
tgaaggatga aaatgtggag agaagctgaa ctgtgagtag tgcttcacaa gactctcatt 240  
catcagagtt accacaagtg taacacatgc gtctatttat ag 282

<210> 29574  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29574

agttctaaga gatttttgcta tgtgaagatc tgcagagacg agagctcgaa gcggaagctg 60  
ttctgagagc ttgagatgag tttgtgagtg attgtgagat cctagagggtg aaggagacat 120  
cctcaccact tgtatttttg caatctttca tcttattctt ctctatgtta gaaaggaggt 180  
ttccagacta tggaaagcta aatcctctgt tggatcttcc ttataggtac ttgatgtaaa 240  
tataatntcta tctatgtaat gatgttttgt gcattctctg tgctatctgc tnttcattcc 300  
agtatgcctt taccttgatc acgtagatgc atgctgttgt anggtcattc aacagngaaa 360  
ctgggttgat tctaagtctt ga 382

<210> 29575  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29575

cactcgaccc gggatcttaa gtcacctgcg gcatgcaagc ttcgagaatg aaatcatttt 60  
gtacactttt gggatatccct tataaccttt cttcattaat attattggat ctntgcccga 120  
taaaaaaaca tgaatcacct tttattttaa catttcacta atacttttca tttttatcta 180  
tctttctctt cttatctcat cataaatcct atcataccta tatgttttct ttgctctttc 240  
tctctctaaa tattggataa cattcggagt gtctatcaca cattctcctc gatacaatct 300  
tatecttgaa tttccttggtg acaaacacna tgattatgaa ttaaccctga tgtgatcctt 360  
actangagcg gatcgcttga tacaggtcac agagnttgga tgacttcact ttca 414

<210> 29576



<211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29576

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 actttaatgt aacaaaaggt cactgcacgt tggtagctc aagaagggat tatattagt 120  
 taattcaata aacaatctat gccaatccaa aagcgtaaaa gccattacta ttgaacgtgg 180  
 atgactagtg tgggtccacat attagggacc attttagaag cccanaaagg ctaaaatata 240  
 angattgctt angtgaaaaa aacaatcggt ttctaggaaa ttgaaagtga aagtgaaaat 300  
 catctggcat aggagaatta aaaaagttga aacagggacg gaagataaca aaaaatatat 360  
 actagtaaata attaggggtta attactntga tatttataat tatacaaaaa tgatcttagt 420  
 ttttataca 429

<210> 29577  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29577

gcttggatct tatatatagt ttgcacatgt ctgtgcaatt gggtattggt ttaagagggtg 60  
 gagtataaac acattagaat gttntctttg tgtgtcactc tactaagatg attatctttt 120  
 tggattctgg aatagatgca acacatcttt ttttactaaa tcttggaaag taacttctaa 180  
 aaactttata ccttctagaa gatacttttc ataatacana aattgaaaca gtatttttaga 240  
 aagtactttc cacaaaaatat tattttgtat ttcagagagt atattttgga ataatgggta 300  
 aatttgtgta ttcaggaaag tacttttcag aatacaaaaa tntaaacatc aatccagaat 360  
 gtactttcgg aatgatgaga taggggtatt taggtataat aagtattcat gataataagt 420  
 agagtgtact tagacaaaag gagtggatat agc 453

<210> 29578  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29578

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 gcatttcctt ctcccttacc ttgttctgga ggccctagac ctggaattct agacatgttt 120  
 ccttgatcac aacaatgagc tatatagatt gatgcanaat aaacatttga aatgatcctt 180  
 ggcttcatgc aaaagatagc tatgttcaat ctcttccacg gttccaccta catatatgan 240  
 aatttcgaaa gggaaagatt taattgatac tagtgctggg agttggaatc aaaattntat 300  
 ccatgaatat ttcaataatc gagatgcaca aacacatact gtctatgcc aattgtttttt 360  
 gaaaatgagg ataatatggg gatttggaag atgagcaaag attttcctgt aaacatgcat 420  
 attatcatat tatggagaac atgtagaca attct 455

<210> 29579  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29579

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 gcgcaaaatc tcttgaacta ngaagatggt gcccatcatc tttttgttct taatgaaagc 120  
 agtttgagtg tccctaataa tagtctcaag cactggggct atgtgggttag ccagaatttt 180  
 agatacaatc ttgtataaca aattacagca agatattggt ctaaaatggg taacctgcga 240  
 ggctgatca tgcttaggaa taagcgcaat aatagcatgg ttgagctgct ttagaatttt 300  
 tccagttgta aagaattcat taaccgctgc agagatataa tcaccaatga tatctcaagc 360  
 cttcttgaag aataaaacat tgaaaccatc tggcctagga gcgttattgt atccatcaca 420

<210> 29580  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29580

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 tttcaaagaa atagtttcta agtgtaaaca cgtaacaaca accaaaggct aatgtggatg 120

gcaaaacaac tgtgaaaact gcatggtaat agattagaat tatgaagaat cttctttcat 180  
 accccagact gttcaataac aatactgttg taagtactag gtagtgaatc aaaaaatggg 240  
 atcattatgt tgttttttat tcaacattgt cattccttca ctaacaatat tgttcaatac 300  
 tatgtagatg tgacaaataa attaaagggt agcataggaa tggcagtgat gataatgcgg 360  
 tgggaaacat angttgaaaa tggaaagaat aanaacaata ttgttgcatc tttggtgaaa 420  
 tgctcaaaca atggtgaaat actcttcaca ttcagcagca acaatg 466

<210> 29581  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 29581

agcttaaaca ttatactttg agcgtctcga tatattacgg gactcaatca gacatccgag 60  
 taaaaagtta ttggcgtttg aattggctca gaggttcaaa attcaatttc gagcgtctcg 120  
 atatatttcg ggactcaatc agacatccga gtacagagtt attgtcgttt gaactggctc 180  
 ataggttcaa cattcaattg cgagcgtacc gatgtattac gtcaactgaat cagacatccg 240  
 agtaaaaagt tatcgtcagt ggaatttgct ctgagcttca acattcgatg tcgagcgtct 300  
 cgatatatta ctggactcaa tcagatatcc gagaaaaaac ttattgtcgt tggaatcgga 360  
 tcgtacgttc aacattca 378

<210> 29582  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 29582

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 ttataacgaa acgctcgaaa ttgaatgttg aagctttgag ccaattctaa cgataataac 120  
 tttttactcg gatgtccgat tgagtctcgt aatatatcga cacgctcgaa attgaatgtt 180  
 gaagctctag gcctattcaa acaacaataa cgttttactc ggatgtccga ttcagtgcg 240  
 taatatatcg ggacgctcga aattgaatgt tgaacctctg agccaactca aacgacaata 300  
 actttatact cggatgtctg attgagtcct gtattatctc gagacgctcg aaattgaatg 360

ttgaacctct gagccaattc aaacgacaat aactttgtac tcggatgtct gattgagtcc 420  
cataatatat cgagacgctc gaaattgaat g 451

<210> 29583  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 29583

taacaagaga aggcacatgg ataagaagaa agcgcgagca caacacgtct cgtatgatat 60  
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ttaacgttaa catcgggtac ctcaagaacc aatgtactgg tatacgtaac atcgatttta 180  
aaaataatgt aacgaacata tgtaacatcg ggtttcttca acccgatggt acgaacagat 240  
ataacatccg t 251

<210> 29584  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 29584

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tgagaagcta gagcttatct acacaccccc tatcatagct aagctcacgc gcatgacaaa 120  
aaagacatga aaataacata agaagtgctt attacataga caactcaaaa tgccctcgaaa 180  
tacatggcta aaacctata ctactagaat ggcaaaatat aaggcctaga caaattatga 240  
acatatctta gtatgtacaa agataagcgg gctcactatt agcccatggg ctcgatattct 300  
accctaacgc tcatgagaac cctatggcct ttgcttggat ctgtagccca atctacttgg 360

<210> 29585  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29585

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 tgagactcac ataatattca gagaattcaa tcttaatggt aatatatgaa tcacttatat 180  
 ctcatcactc tcttttaata agcttatatg tgttcaagtt aaaattccca aagagtataa 240  
 ttccatattc gacacttgat cagtaataat agtatcctag cctagatttt ctccattcat 300  
 aagctaataga tgcgttggtg actctcgttc tactggaacg tgatgcactc acgtctgatg 360  
 tggaattaac tcgaccatt gtatctatat ctttccgttg catgacgggt gaccattcac 420  
 acattcaaag aatca 435

<210> 29586  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 29586

agctttgagc ttttcaaatg gtcataaata gtaactcgga ggtccgattc aggcgcatat 60  
 tttatcgtga cgctcgaaat tgaacaacgg aagctctcaa gaatatcatt ggtcataact 120  
 ttttaactcag aggtccgatt caagcgcata atatatcgag acgctcgaaa ttgaacaacg 180  
 gaagctctca agaaatttaa atagtcataa cttttaactc ggaggtccga ttcaggcgca 240  
 taatatatcg agacactcta aattgaacat cagacgctct agagagaatc aaatgggtcat 300  
 aacttttaac tcggaggtcc gcatcaagcg cataatatat cgatac 346

<210> 29587  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29587

tgtanggtta aagtctcacg aatgtcatgt gtcatagcaa caattgttag ccgtggctat 60  
 acgagatatc ttgccaaaca aagtctggtt agcgataact cgctgtgct ttttcttcca 120  
 tgctatatgt atcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgccagttgg agatgtattt tcccccgct ttctttgaca tcatgattca 240  
 cttgattgtg catctggtca gagaaatcaa atgttggtg cctgtatatc tacgggtggat 300  
 gtaccggggt gagcgataca tgaagatctt aatagggtat acgaagaatc tatatcgctc 360

agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420  
 cttagagaaa gctaaacctg ttgggctatc tgagtct 457

<210> 29588  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 29588

ctctctacat atcatgcgcc gcactcggac atgcctgtga aaagatatgt tcataccaat 60  
 tgctcgagag cttacgatgc ttaatttcga gcgtatcgat atattatatg cctgaccg 120  
 acctcacagc gaaaagttat gaccatacca atttcacgag agcttacgtt gtgcagttcc 180  
 gagcgtatct atatgagatg cgccgcactc gaacatccca gtgaaatgat atgaccatgt 240  
 gaatttctca agagcttacg ttgcgcaatt tcgagcctat cgacatgtta tgcgcccga 300  
 ctggacatcc cagtgaagag atatgaccat acgaatttca cgagagctta cgatgtgata 360  
 ttcgagccta tcgacatatt atgc 384

<210> 29589  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29589

agcttatatc cagcaaggca caaggaacaa attaaatcaa gtcttatcaa aatcagataa 60  
 ttcatgggac ttctatcaat gcaaaatgtc ttccaaaaca aaaagctgac cttttggctg 120  
 actacattgc atttatgaaa gatagacagt acatatttgt tgattcatgc agggacgcga 180  
 ctaccttaat cttagattgt attatccatc aagctttctc tcangatgcc attggagatg 240  
 cagtatacca tataaaggaa aatactagtg cccaagacat acaccttctt gcatccatat 300  
 ngaagctgat gagtgtttca ttgctgcata caattaagta tctaagcaat agtgggtgatt 360  
 cagatgtaga agcacataac tttgatgggt tgatgatgat aatgatgatt tga 413

<210> 29590  
 <211> 444  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29590

ntataagctn tatttaagcc atatctctag tcaatgtggg actaaattac caccottgag 60  
ctgcaattaa ggcagccccc atagcaaccg caactgagct tggatagggg tgaccacaat 120  
taagcttggc tttccaacaa ttaggcaatt ccctaactct tcttaccatt ttctccactc 180  
tttcaccccc tttttcctcc tcttctctac acaccaacag acttttacta ctgttaggac 240  
cattttttatc tttctttcct ctcccatgta tcttgatcag cagcccatca gaactcaatt 300  
aaattaaaat acaactcang cagaacaaaa aatctgaata ttatttggac agtgaggtct 360  
ctcccaagtt tgtctatggt tgactgctga acttatggag attaacataa atgatctggt 420  
acagttgcga gggacacaca aagc 444

<210> 29591

<211> 416

<212> DNA

<213> Glycine max

<400> 29591

agcttgaagg ctaactggat gcattggtca acttggtaac ccagctggcc ttgaatcaga 60  
aatctgtacc tgtcgcaagg gtttgtgggt agtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcaaagc aattatgacc 240  
tctccagcaa cagatacaac cctagatgga ggaatcacc taacctcaga tgggtccagcc 300  
ctcagcaaca acaacagcag cctgctcctt ccttcataa tgctgctggc ccaagcagac 360  
catacattcc ttcaccaatc caacaacagc aacaacctca gatacagcca acagtt 416

<210> 29592

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29592

atgccgtgga gtttgacaca atgtcaatga acaacatatg taccatgtga gctgtatgag 60

cctgaggat aatgccgaag tgaatcccct ttganaagcg gtcaacaacc acaaggagta 120  
 caatcttgcc ctgaaaaaaaa ggaagaccaa tgacgaaatc aagggagagg tcttcccatg 180  
 gtctgaatgg aactggaaga gggcacaaca agcccacaat atgtttcgtt tcatatttcg 240  
 tgaattgaca ttcaatacaa ttagctacaa agttggcgac atcagctcgg agacctggcc 300  
 aagttaaatt ctccgacaac catgttattg tctttgtgac tccaatatga ccccccattg 360  
 gagtggcatg gtattcgatc aagagagatt gaatgagtgg aagatcatgg tgtaaccata 420  
 ttctgccctt ctggagaatg agattcntaa taatggtgaa gtctggat 468

<210> 29593  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 29593  
 agcttgagat gatgaattgt ttaatgggtca accttcoctgc ttttatcgtt gaccacagag 60  
 tggtagctgc agatatgtcg ggggggacaa gagaccttgg ggacgtcaag tgggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagctgaga 180  
 acctgtgatg tacctaaaca agcgagctcc tggcagtcga cagataaaaag gaacaatgac 240  
 tccaaagcaa ggaggcttgt ggtggctggc cagctgagaa acttgagtga tttgtgggct 300  
 gtggctctga taatcgagta ccacgggtgg gtaattgatt acacggctta agaatgaaga 360  
 cagtgggcta agattgtctc tggtaatcga ttaccagcgg atgtatctaa cacc 414

<210> 29594  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29594

tcagaccana gcaactcana atctaggtat ctaaaacccc tcaatttttag tggatttcaa 60  
 cgtttgagaa gtgaaaatga gaatgggact tggagcaaac tctcatctca aacaagtcta 120  
 tatcatcaat ttaaactcgc taaaactggt tntacgacga atactctacc gaatcaaaat 180  
 ttgactcctc aacacccaat tttaccctag aaatggctct tgttttcact ttggtcactc 240  
 atattcctca tttgcacagt ctaagctttc tcataagtcc taaatgacat ttcaaactag 300



gattaactcc ctttaacctc caaataccac taaatccaga atttgccttc caactctcaa 360  
 agcctcactc tttttttcac tcataacacc acattctcac tttctaacc taggttaact 420  
 ctacccttca tctctagcag ttttccataa gcaatttcag cacataaaca tcacaag 477

<210> 29595  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29595

agcttattca gatgtacttt tatgataaaa acataagaag aaaaaatgac ataaatttct 60  
 tcataagttt aaaaatagtt cacgcataag ttagtttata gaagctatct tatatagctt 120  
 ctctaaaaga tgatagagtt tctacaaatt gatatgtaca taaattaatt tgagcttatg 180  
 gagaaattca tctcattata tttcttttta tctttttctc ctaacagttc ttctagaaaa 240  
 attcatccaa acacgtctca ttntaacagt taacataaac catcaagatt atatatactt 300  
 tatcctctaa attatTTTTT actttgaagg agtcaagata aaagtcatta taatgcatgt 360  
 gtaaagaana tactacaact catgcaagt catatatcga tatgtttagt atatgaaaat 420  
 tacgaatc 428

<210> 29596  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29596

ntcttgagat aacttccttg agaatcttct ttgagataac ttccttgaga agctagagct 60  
 tagctacaca caccctctca taactaagct cacctccttg agaagcttgc ttaagaagat 120  
 tcttaaagaa tctagagctt agctacacac acctctctaa tagctaagct cacctccttg 180  
 agatgagaag ctagagctta gctacacacc ccttataata gctaagctca cccctatgcc 240  
 aaaaaatatg aaaatacaaa aaaagtcctt actacaaaga ctactctaaa tgccccaaaa 300  
 tacaaggcta aaacctata ctactagaat gaccataata caaggccan acgaaggana 360  
 aacctattct aatatttaca aagataagcg gactcact tagcccatgg gctcgaaatc 420

taccctaagg ctcatgagaa ccctanggcc ttcccttggga tctctggcac aatct 475

<210> 29597  
<211> 423  
<212> DNA  
<213> Glycine max  
  
<400> 29597

agctttgacc aaattcaaac gatgataact ttttactcgg atgtctgatt gagtcccgtg 60  
atatatcgag acgctcgaaa ttgaatgttg aagctctgac caaattcaaa cgatgataac 120  
tttttactcg gatgtctgat tgagtcccggt aatatatcga gacgctcgaa attgaatggt 180  
gaagctctca gcaaattcaa acgataataa atttttactc ggatgtctga ttaagtcccg 240  
taatacatcg agacgctcga aattgaatgt tgaagctctc agcaaattca aacgacaata 300  
atTTTTTTtag tcagatgtct gattgagacc cgtaatatat cgagacgacg gaaattgaat 360  
tctgaagctc tgagctaatt caaacgacaa taacgctttg ctcggatgtc tgattgagtc 420  
ctg 423

<210> 29598  
<211> 493  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29598

gacgcgacac ttaataactca gcttctatat aagctgaacc attttatcaa taaacacaag 60  
ttgagtttta ttcagaaaat tagagtttat ctcttttctc ttagtgagag tgattctcct 120  
aaattcttga gtgattcaag aacaccctgg ctatatcaaa ggactttcac aacctttgtg 180  
tggtgccctc gctggaaaaga gtgattcttt ccttctctatc atctccaccc ttgttctttc 240  
aaaccacaat tccagaaaat ccacctctgc ccaaaattat ctctgaccca taacttccat 300  
tttacacact caaattaagt gattcttgag cctaaattga atttcaaaac gatacctttc 360  
acctcgttct ggaatcacct cattnnggagc cctgtagctt ccgttattgc catttctata 420  
tttctgtcca gccaccactt aacctacgtt ntaccatccc attcattcca tttatgccag 480  
aaaccacctt att 493

<210> 29599  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29599

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cctcacacca atctacctcc tcacgcttct attccganan tetgccctcc gacactatgc 60
accccccccc cccccccacg agtgagctga tgcaatagtc atcaggccaa tccactcgta 120
ccgtagaccc tagatcccct gccgcatgca acttagaatt taacttgcac tccaatgcaa 180
cgaaacatgc tatggctaca tattcacatt tgcttgtgag agcccatgct acactctgcy 240
ctgacccatg cctgatactt cacatagaaa gaccgtggaa aacatcctcg aaatagtgtg 300
catacatagg tcaatatcag gagcattaac tcccaacaca gcgagaatga tcgactccct 360
aagtgaacgt atgatcacgc ggaacgccat ttgaatgcat gtatgtgcat aatgcaaaaa 420
tctagccaat atgtgcaagt gtgagagaaa caatcaacgt cggtaaggca tatatactct 480
gagtgcgcga acgcacatcg cgatacctca ctgtttagac atagctatct caaattatag 540
cccacgcctt gaggtgacag ctctcg 566
```

<210> 29600  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29600

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agcttatatg ttactctgag cactgaatan ggaagagaca tagggataac tatagtcact 60
ccagggctga ttgagtcaga aatgtcgcaa gggaaagtcc tatccatgga atgcaagatg 120
gtttttgatc aactaataag agatgtaagc tatctttact ttttgcacaa gacttggacg 180
caatttttaa catatctttt gtgctgtttc ctagtcagaa ttggaacttc acttgtataa 240
ataaaagatt agtattattc attgtaatat aagccaagtt cggtccttgc ctttcattgt 300
aaatatttgg ttctccatcg gaatcggagt ccagcctgag agggaaacgga acggaacttg 360
gtttttctct cacatggggg cctacagggtt acacaccag ccaatacta 409
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<210> 29601

<211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29601

cacattgtcc taacttatca atctcatatt ctaatgtaat ttatatnnna annannncat 60  
 cgatgagcgt gctgaccctt gcattccggc actatnaata ctcaacttgt atcataagag 120  
 ccttatggga ctaaacttta tccactctaa ctatacttcc tgaacttcga tattegatgg 180  
 atatgcctgc cagaatcagt tctggacgct taagtcggcg atctaagggg cacttatact 240  
 acctatcctt ttatgggatt cttttccttc attaagatag ttctatctga tctgacatta 300  
 ttaccatata tagaagatca agaagtgcct ttgcctgaga tagactatat tacaaaactt 360  
 aaccttggtc tccaatgcag tatacacgaa cagcataagc catgctaata aatgggtgcaa 420  
 agctgacatg acaagctgtg acaatgccta ctgcacaccg ggggaaagtc agtctagtga 480  
 atcacttgct ttcatactgg ctcatattat atgagatgac cgctcgcat gaag 534

<210> 29602  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29602

agcttcacga ttttcctagc aatttagttt cagacagggg tcccattttt gtacgacttt 60  
 tttggcgcaa attgttcacc atgtgtggca taaagctatg tatgagcact tcacatcacc 120  
 cagaaatgaa ccagcaaacc aaagttctga accatacttt agagcaatat ctcaaagct 180  
 tggtcagtga cacaccaact cgctgggttca actatctctc actggcagaa tggcggtata 240  
 atacatccat tcattctgct acaagaatta ctncctttga agcaacttac ggcaagggtcc 300  
 cttcttctat tctcggtact tgatgggata gtccagcgta t 341

<210> 29603  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29603

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nttaatttag tagtgggaac gacaaacagg atggaatatg aggatcaaag ttgagctaca 60
ttgagatatg gggtatgaat gttggtggca taacatccac atcaataaaa gtgtatatat 120
atatatataa tactagaaac tgtatccaat ctcttaagta tcgactaaga ctattcatta 180
ataactatga gaaaggatca taaccttatt cttaaaattc taaaaacatt aggactctag 240
ttctgatcat gtaagtatca ttcaaggagg cttttggctc ccactacttt gccaaagatt 300
gtgctggtta ggtttaagta aaaggttctg aaatttgggt agaaaagcat gttatctttt 360
ttaagggcac ttagttggat aggatggttc ttcagcctcc caataattnt tctatgctag 420
ctagttgctg atagatgggt taaaagattg aaatt 455

```

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<210>      29604
<211>      422
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      29604

```

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agcttgatga tatgggctaa tcccgaaaga atttatacaa caaaggcttc gattcaaaag 60
gaatcctana gagtctgctg gagtgactaa catcaaacgt acgcttatca caattgtctt 120
tgggcattnt ccatgagctc ctgggtccaat gagttttctt ctcaattgtg caagtacgaa 180
accttgagga ttatatattt ttttcaataa tcacaagcgt gtatggggtt cattccagaa 240
tcccactta taagcaaaat tagtcattcc ttgatccaca tgggctntat tgtgcttgta 300
acgtggtcag gggatatgagg gctatganag aaaggattag agaggctcan agagtgtttg 360
aaggttacat tgagtaagaa ccttgagagt cttgcttgta ctttttgtcc tttcaactct 420
tg 422

```

```

<210>      29605
<211>      454
<212>      DNA
<213>      Glycine max

<400>      29605

```

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tgaatatcgt catactttgt acattccgc attgtgtctt ttgcatatgc atcgcatatg 60
ggttctgtct tgatcccttc agtaaacaaa ccaacggagg gtctgtgtcg ccttcttaaa 120

```

aacgtacggtt ggggcacttt gctaccccta gacgttgtat ctaagaagg gacaaattcc 180  
 ccgggcccc gcattcctag attgcatttg tgtcatatgc attccatcat gcattcatcc 240  
 atccccacca tgagatatcg gagttttgat ttgcaccagt ttttgtctca ctttagtaag 300  
 catgggaaca aatcaaaccg gcaagagggt ctaccaagtc aagggttaaaa gcctagatac 360  
 caccagcatc aaggaattag ggcggttgat gaaacctctc caaatgcaag ccttccgcaa 420  
 gacttacgga aagatcttag agttgacat agca 454

<210> 29606  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 29606

agcttctggtt ttcaattttg agcgtctaga tatattacgg gtatcaatcg gacatccgag 60  
 caaaaagtta ttgtcatttg aattttgtgt attcattttt tagcatcaag aattattaaa 120  
 tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180  
 tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaaga 240  
 tattgtcatt tgaattttct tagagctttt gatttcaatt tcgagcatct agaattatta 300  
 aaggactcaa tcggacatcc gagtaaatag ttatgggtcat ttgaatttgc ttagagttac 360  
 tgggtctcaat ttcgtgcgtc tcgatatact ataggactca atcggac 407

<210> 29607  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29607

tgtagcanat gcaaaccaca ataactntta gctcggatat ccgattgagt cccgtaatat 60  
 atcaagacgc tcgaaattga atacagaagc tcttagcaaa ttaaaacgac aataactttc 120  
 tactcggatg tctgattggg tcacgtaatg tatcgagtca ctcgaaactg aatacagaag 180  
 ctgagagaaa attcaaacga caatgacttt taactcggat atcccattga gtcccgtaat 240  
 atatcgagac gttcgaaatt gaatgtagaa gctgtgagaa aattgtaacg ataataactt 300  
 tttactcgga tgttcgattg aatcccgtaa tatatcaaga cgcttaaaat tgaacacaga 360

agctcgtagc anactcaagc gacaataact nttaactagg atgagtcctg taatatatcg 420  
 agatgctcga aacttataac ggaagttcgt agcatattca 460

<210> 29608  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 29608

agcttgtccg ttcggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
 agagagcatg aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300  
 atatccgtga tattgctgag ctgcacgaag ttgttgatat ggatgatttg cttcaciaag 360  
 caatccaagt ggagc 375

<210> 29609  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29609

ntgcggatnt ggtcttcgcc agtgaaagga tcgaagtgga tctgataaga ggcaaactta 60  
 atcatcctgc ttagacgaat gagaaaactg nggcaaataa agaggggtgag gatgagggag 120  
 aaacccatga tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180  
 cattactcag tcaataacaa accacctcct taccaccac ccagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac cacctttagc 300  
 acataccata ataaacacca accaagatat gaattntgca gcgaatagcc tgtatgattc 360  
 accccaaatt ccggtgtcat atgctaactt gctcncatat ctacttgata acgcaatggt 420  
 agccataacc cct 433

<210> 29610

<211> 352  
 <212> DNA  
 <213> Glycine max

<400> 29610

agcttccaaa ttagtgtacc acactaccgc agctccggcc aagctatcct gaaagaagtg 60  
 tatcaacagc ttttcatctt tagaatgagc gcccatctta cggcagtaca tcttgagatg 120  
 ggttttggga caagtcgtcc ctttatactt gtcgaagtcc ggcactttga atttcggggg 180  
 aataacaaca tcgggtacta aacaaagatc cgatcatgtct gcaaacggat agtcccaaaa 240  
 tccttccaca gccctcaatc tttcctcaag gagatcgagc ttccttcttt cttcaattgc 300  
 cgggggcggc ccttccatag acaaaactat aggcgatgct gcgatgttgg gt 352

<210> 29611  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29611

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 cgaagaatga tgaagaacat ccacagaatt gatcacaaaa acatcatgga agcggttacag 120  
 aagcgtctcg gcttggattt attccttctt tcttcttttc ctactaatt ttaagtgaag 180  
 actgaatatc caatgtgctg aaccccttcc cctcagtccc aaaagtcatt ntatagcaaa 240  
 aatgagggag atggttgccg ccagcctgc ccaggcgagc tatgtagctt ccacctgaag 300  
 caacctccct ctagaatgtt ccagatgggc ccaggactag atacaccnc cctgaatgga 360  
 tcagttcacc cnccattttg tgttttggct gatttccttc gaacatcgtg aaatgtacga 420  
 atacacgttg atagt 435

<210> 29612  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 29612

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 tccctcttgt tgtgtgtaac ccttggccac aagcctagct ttgtaacttt ggatggcgcc 120



attaacacaa tgtttgatgt gataaaccca cctataacca attgaaactt agcttgggga 180  
 aaatcagtta gatacgaagt atgatttgct tcaagagtat gtaattcatc cttcatagct 240  
 tttcttaata cagtttcata cttaacagct tatgcatatg ttttgggttc agaaatTTTT 300  
 gaaatggcta aggtatatat ttgagatgac taggagacaa atgatgatag gacagaacag 360  
 tggataagga atataaagca gtacctgaag tagaagacag gaacctgctg agttagaaga 420  
 ttgcatgta 429

<210> 29613  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29613

tttttttctc aaccttcact ttctatTTTT ttctcaaata acaaacttaa taacttatgt 60  
 tattttttct caaataaaaa aattaaaaac ttatngtatt ctttttattt ctcttttccc 120  
 atctatctct ttcttattgc tcattggctt ctgttctttt ctctctgtca aatactataa 180  
 ctaccacatt gaaccactnt ntacactaaa gcttctgttt agtctctca catacaaagt 240  
 ttttttttgt cttctctctc agatatattt gttcctaata ttatcttttt cttatatgcg 300  
 aactcatcag ctntaacatt cttatcttat ctacacactt gaggttatat ttatagtaat 360  
 taatacaact tatattntat ctttgattag cctgtgc 397

<210> 29614  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29614

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 ttgtagaaac aagacttgct cattatttaa ttcttttaca cttccgagca tacaacacta 120  
 acctgtgtg tatttgataa gctacaaaaa tgttgcttaa acatgtcact gtcttcttca 180  
 gatggtagac ttcccaaatt gccctcagta gttgtttctg acacacttcc agattcactt 240  
 aaatacaact gctctgcttt actctcagaa acttcttcag aacaccaaga aacatcatta 300

ttgttacagc cagcatgttc tggagcaaca cccctctttt cattcttgc aaggttatta 360  
cgcccaaagg agttctgggc ctcacaaatc acagccttat gttgtcctac aataagccat 420

<210> 29615  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29615

gaatgacata ctcttggttg acatcaactt gtgttcaaaa ttattagttt taaggactga 60  
caatggcctg cagtcgttca aagcagttca atgagttctg caagaaaata ggcacaaaa 120  
ggcacataat agtccctcac acaccacaac aaaatgggtt ggcagaaaga atgaataaga 180  
ccattttgga aagagtggag tgcataactt ctaatgcatg actgccaaag accttctggg 240  
gagatactgc tacaccacag catatttgat aatagatgtc catcatcagc cttatgtttc 300  
aagacactaa tggaagcttg gagcgggtgaa ccacctgatt attcatgatt aaaggcgttc 360  
tgatcactgg ctttcgctca tgttaaacaa cgaatgctgg atgcaagggtg tataaagtga 420  
gtgttca 427

<210> 29616  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29616

agctntatgt atattctttg taaagttcag aagctttcaa aataccttgt acatcttaga 60  
gaaaaaacta agagcttaga ttgtatatcc tcctatgaga cgtttaagaa gtactcaatg 120  
agccaaccaa acaacaaatc ttttgattat tttagagcta gtagtgactt actaggacaa 180  
aagatattga gttgggtaag tttgcgttgc atgagccaag agtgatagtg aaaaatactt 240  
gtaattagtg aaatttggtg gtttatcaag aactggacgt aatctcagtg gtaaagacga 300  
accgatataa aacttcatgt gtctgatata tatctctttg tgcttatcta gtctt 355

<210> 29617  
<211> 475  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29617

actcagcttg tatacaactc anaataatga acgattttca agcaaataca gcatacacaa 60  
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tttattcttt gtttttgggt cattatttat ccattgtttt catccagatg tatatttaata 180  
ccagttaaaa tticagctca aaacttaaaag tattcaaacc atgggtggagt taagaagaaa 240  
gtgtgccaaa attgacagca accaaaattt caacctagaa ataaagagta gtgtttatat 300  
tgtttaaggc ttagatagtt acaatttgtg gttgattaag atcaattgtc ttgaataaaa 360  
caaactgata gagcttaaga cttattttga ttcacaaatc caggcacaac tcaatttctt 420  
cataggcatc atataggana cttanaaaac aaaaaagttc aacaaaacta cttct 475

<210> 29618

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29618

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gtggatgacg cctcctctca cctcttctcc ttgtcttcc actgcatctc catgggtggaa 120  
aatcaccatt aaaggacctc attgaagctc anaccaccaa aagtgagtgt ttgttgggga 180  
accttgaatg tggatcatca aacactctta ggattcgcct agtttacatt tcttgcttac 240  
tttcatagct tatttccttt atcttccatt gtcaaaccgc ctagatagct ttctttttaa 300  
ccaattagtt ttttccctta tctntcagac ctcttttagt gtttattttg gctagtttca 360  
accatagtta cttttacctt ntgttttcaa acctccaata agaaagaacc acaactt 417

<210> 29619

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29619

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gcatgaaggg tctatatata tgtgtgtcta actttgaaaa gcaagaaaga gatattctaa 120  
gagaacttca ttgccaaatg ttctctcaac aactcttggg caaacactta caaatctatt 180  
gagagttcat ccaggaattt caatttgtat catccactct aaaggagaga aatctttttg 240  
tttatctcan aagtcagttg taatcaagag actggttgtc tcttgaattg tgagtatcct 300  
gaacacaaga gaaagggatt cctcgggtgt tcagaagttg taaaaaggat ttttacaag 360  
ttagtgaaaa tctcaagtgg gttgcttgag gattagatgt angcacagga agtggctgaa 420  
ccagtataaa tcgagtntgc atttctctct tccttcatct cat 463

<210> 29620  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 29620  
agcttcaca acatccaaga gaaacaacat tcaaacagca caagctatca cagccaagca 60  
aaacagagta aaggcagaaa actctgctca acacatcaac caaaatcaca gctttttctca 120  
cttaaagacc acagtaacaa ttccttcgat ccaattcgtt aaccgttgga tcgactccaa 180  
aattttactg gaagtctata gtgcataagc ctacattgta accgttgga tctactagaa 240  
aacatccaga actcattctg tactactctt tccacagcca accacacaca agcattttct 300  
gcaccaagct aaaatcctgc tgcacctatt atgacagcaa aattctgcat aagtgcagat 360  
ttcgaacatc acacttcccc tcatccaatc ttgctcagat cagatcctac aagtcccaaa 420  
tc 422

<210> 29621  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29621

attaatgtgt tgtaccgatt gaaaaggcca tatatttgag ctattcaaaa ttagttcgtc 60  
atggatgaga actggaaagt aactaccaag gaataaggat ataggagggg gccataaaga 120  
gagaagtgag agtgagacgc cataaagtgt gtaaaatttt tatatagtca gtatatgttt 180

gataataagt tctttgaaag ttctactaac aagaatccag aaataaatta tttttggtaa 240  
 ttaacaaagt ataaacaaca attattcagg tcaagacaat taaaatatct gcaagagcag 300  
 catatacctc aactctaagt atcagacacg atcacatact tatectatta catggaccgt 360  
 gtaattctgg aatcttcttt ttagatntta ccgttattat tttgctctca ttagctgtgc 420  
 attgttcttg cacat 435

<210> 29622  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 29622

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 tatatcaatt gacttttagga ctgatctgtg ctctttgcac ttttccctt tttttaacgt 120  
 tcttgaataa aatttggtt cttaataatt tggacaacat aagtgttaat agatttataa 180  
 acttaaaacta atgtgatgtt agaaatcaat taagaaccac atactaggat gggcattaga 240  
 cacctaacga ccattctga gaattaatgg atgcttgggg gttattagag accctaaact 300  
 cacgaaatta tgcgacaaca cgaattttgt tatgtcataa actaagtga caagtgtgta 360  
 gttttcac 368

<210> 29623  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29623

tccatggcat gaggtctggc tcccgctctg ctcttgcccg cgatgccttc tccctttctt 60  
 tatccacatg ctctctctcc ctcaatgaat taaggcaacc cctctccctt ccttcatcca 120  
 agatgcttgt cgagctctcc aagtcccagg actcccctgc cggcgacagc accaccaccg 180  
 tcatcgatcat catcggcgcc ctctcaagc agtgccnca ccttctctcc cagcacatcc 240  
 accccaccat cgtcactgac gccctccaca aggctgccat caaggctgtc gatgttctca 300  
 ttgccatggc tgtctctgtc aagctctcca accgtgactc cctcgtgaag tccactcana 360  
 tntaatggat aggggtaata tgaatangta acccaattga aataagaaac tacccaatta 420

natccaatga actactacna atatgcatca acat

454

<210> 29624  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29624

agctnttttc agtcgtctgt aaggatgatt ggggtgtaga aagtggatgat gcctactgta 60  
cacagttttt ctcccatggt taagttgttt gtaacttgta ttttcttcac agatggggca 120  
tgcatgatga cccttaacac tgtaaccgct gagattccca tatgctggaa agtcattaat 180  
ggtaaaaaaa agcattgcac gcatttcaaa ggtctccttg cgaaacgcat canacactac 240  
aaccctcttg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300  
gtcatttcct ggctgtcttg ggcccgatat catcatattc agcgtcatgt gttttcgctt 360  
catgcac 367

<210> 29625  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29625

nttaatggaa gtcaagagca cgatattgctg cccataccgt tgactggatga gcaggtatat 60  
cagcgggttc aacacctgaa tactgtattt ggaaagacc aaagaagga taaaagtaag 120  
agttgcatat ggaaaaagag gtccattttt tttgatcttc tgtactagtc tgatctagat 180  
gttagacatt gtattgatgt tatgcatgct gagaaaaatg tatgtgacag tgtgattggc 240  
acgctcctta acattcaagg caagatgaag gatggcttga ataccgtca agatctagct 300  
aatacaggga tacaatcata gttgcatcca aggtctgatg ggaagaaaat ttacttgccc 360  
ccagcttgcc atactttgtc caaaaaggag aagatccgt tttgtcagtt tcttcgtcgg 420  
gtgaagggttc cacaaggata ctcttc 446

<210> 29626  
<211> 421

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29626

agcttatcca aattctgttn tagatattcg tgaattacaa cctgncaatg tgaaagtttt 60  
tattcaatgg caaaacctcc ctccaagtga aaataattgg gaatctgtgg ctaaattaca 120  
agaggttttt ccgacttata accttgagga caagggtgagt cttttaggaa ggggtattga 180  
tatgcataag cataagccac acatcaccaa ggtgtacact cgcaaacaac gagcaaaaga 240  
agcaataacc atggaccacc agcagcaagg cgcacaacac ccaaggggtg caaaccaccc 300  
aatagttaca acccatccaa aggggtgtaa ccaccttaata gttacgattc acccaaagaa 360  
tgcaatgtca gaagatgcga atcaagggga catgaccctt gngaacagtc acaatcaacc 420  
g 421

<210> 29627  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29627

tcaggttgct cattgactcc agattgatgc ataanaggac aaagatctgt atgggtgatct 60  
acagaagaac atagaccaca gactctttca acagggtgtag attttttatt catggcaagc 120  
tgagttacta ggttgaccaa ggcatacaagt tttccctcaa gctttttact aggttgacca 180  
agccatcaac tttccctca agctttttat tttcacttga atttgaaatt gaattttgga 240  
gacaaatttt cactaattat gattagtga ttttagctat gggtcagccc accaatccaa 300  
gatcaattcc aagattctcc actaagtgtg cttaggtgtc atgaggcatg taaagcatga 360  
aggacatgca caaagtgtga ctatatgatg tggcaatggn gtgtagcaag caaatgatca 420  
cctccccctc taatanntta atggattggt cttctcccaa t 461

<210> 29628  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 29628

ctctctactc ggatgtctga ctgagtcccg taacatatcg agacgctcta gatcgaatgt 60  
tgaagctctg accatcatca aacgacaata accttttact acgatgtatg atcgagagcc 120  
gtaacacatc gagacccttg aaaatgactt gagaagctct cagcatattc taacgacaat 180  
aacaatttac tcggatgtcg gatagagtca cgcatacatc cggacgctcc atattgaatg 240  
ttgaatgttt tagcatattc ataccacaat aactttctac tcagatgtcc gatgactccg 300  
gacatatcga aagctgcaat taaatgtcga agctctgatg atttcaacga caatactatt 360  
actcggatgc tgaatgaccg 380

<210> 29629  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 29629  
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gagttttaag ttattgtcgg tcgaatttgc tcagagcttc cgtattcaat tctcaagagt 120  
actcgatatg ttacaggact caatcacaca tccgagtcaa acactatcgt cgcttgaatt 180  
agctcatagc atcaatattc tatgtcgagc ctgccgatat attacgggac tcaatcagac 240  
atccgagtaa aaagttgttg tcgatagaga gttctcaaag ctataacagt caatcccag 300  
cgtcttgaca gagtactgga ctcaatcaga catgcgagta aaaagggtatt g 351

<210> 29630  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29630

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tctccaggta ccactctgtg gtcaacaaat aaaagtagga agactgactc ttccatgctt 120  
tctcacacca agcttattgg attatggggc acccatcata tgtggtacta ggtggcgatc 180  
gggcgatggc accaatcaac tatcccatTT ccacaagcca ggcataagca caccatcccc 240  
agttgtgcac ctttaaattt agctcatgtg cacatacgta gccttctcct cgttctctc 300



agccccgggtc cccatcaacc ccaccaagct ttcacaatat ccaaacaatt caattccatt 360  
 tgtcatgaaa ctaccttaaa caaagaataa cagagtggag gcagaaatct ttgcacaaga 420  
 ttcattcaaa ttccatagaa gttttcctac cctcata 457

<210> 29631  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 29631

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 aatacattga tctaaacata agtgaaaagc ttaaggctct atctagctaa aaaaagacag 120  
 acaaaataat gaactcgttc cattaactaa aattcaatta cgagataaag catagatacg 180  
 aaagattatt acatagatta tgtacttggc taaacttaaa ggagtgttgt tcgccggcga 240  
 gctggagggt gccgctgacg aagacgatca tggcggagtt gacagcggac ggctgggaat 300  
 cgacggtggt gatggagtgc tggcactggt 330

<210> 29632  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29632

gtgaagcttt gttgaacctt gnattgatcc ctgcatacgg accttaagtc tcagcttact 60  
 cttatgcctt gttgcactcg actgtaacac ggtaacttaa gcatatgcgc ctaaccacct 120  
 atgaattgcc gaatctccac tcaaacagaa tgagactaat actctcacat aggtcaatat 180  
 aggggccatt aatatgtgat gatgtgaaat gagatgaaca tgtgtaagtg tgatagccat 240  
 gatgatttga cgcgcgagaa ggatgtacta taacaatgat cgtgtaacat gacatgcaat 300  
 ttcatgagat ataaatgatg gcgatgatca gactagtaat gaatctaatt aaagtataca 360  
 aagaattatg gaatacaatg tgacagagta agaaaattcc ttcgacgtga gtttgactag 420  
 attatatgcg taataaactt gtactctatt agcactctct agtattagat taacatagct 480  
 atagctactc tacatttata actattcatc t 511

<210> 29633  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29633

agctntcatt gttcaatttc gagcatctgg atatattatg cgcttgaatc ggaccttcga 60  
 gttgaaagtt atgaccatnt gaatttcacg agagcttccg tggttcaatt ttcagcgtat 120  
 cgatatatta tgcacctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180  
 cgagagcttt cgttggtcaa tatcgagcgt ctcgatatag tatgcgccgg aatcggacct 240  
 ctgagtana agtaatgacc atttgtattg ctcaaaagct ttcattgttc aatttcgagc 300  
 gtcttgatat attacgcgcc tgaatcggac ctctagttg aaagatatga ccatttgaat 360  
 ttctcgagaa gcttcgttgg tcaatatcga gcgtctcgat ata 403

<210> 29634  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29634

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag gggggggttg aattaagata ttcgaaactn tntcttctaa ttaaaaatct 120  
 atcttacttt gtacttaagt tatgaattcc cttaaagaca atcttcttaa atattaattc 180  
 aaatgaagca acttgaatat gaatataaag caataataaa taaaggagat taagggaaga 240  
 gaaaatgcaa actcagtttt ataactggtc ggccacaccc ttgtgcctac gtccagtccc 300  
 caagcaaccc gcttgagagt tccactaact tgtaaatcc ttttacaagt tctaaacaca 360  
 caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtctctt 420  
 aatcccttag agaatgagaa gaa 443

<210> 29635  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 29635

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 acgacaccac agcgcatatt tcgagatata ggctctggag gcagcaagag gagtacctct 120  
 gcagagaacc ctatggtact atacatagag agagattagt gagctgcaca gtgatagtga 180  
 gaagctgaga atatgaggag ggatccccct tcttatgtaa tgaaca 226

<210> 29636  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 29636

acagactcgc agcagctgaa tcattcctct atagcatcct taaagctgct ccctcagctt 60  
 taagcgcttg aatgccatgc tatacaggct gaactatgac tcacagattc aagaaatcaa 120  
 tgaatctctg ctgaccattg aactgtgagt gaacgagctt aaaagcaaatt gacctcttgt 180  
 gaagcttcta gaagcaatgc ttaatgcagg aaatcgaatg aatgcacgaa ctgcaagagg 240  
 caaagctcaa gcttttttca atgtggcttc tctaaggaag ctctctgatg tcaagaccac 300  
 caacgg 306

<210> 29637  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 29637

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 tttcacgtgc tgcaaacatt gcttttagta tcagcgatca aactttaaac aacagaaatt 180  
 taaatgactg aaatctaagg actaacaag cagaaactag ataattgaca agaactatat 240  
 aactgataaa ctagattggt catgatttgc aaaattctca ttactatgca gaattgagaa 300  
 ctactgatca tctgtagct gatcgataga atgctcgctc agatctatca ctgaagaagc 360  
 tggaggagac tgtgaactag actactctta cttcaatgct agcgcatatg gcaacgggat 420  
 tctatatatc ccgg 434

<210> 29638  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29638

agcttgtagc atattcgaac gacaataaca ttctactcgg aagtccgatt ggtccccgta 60  
 atatatacga acgctcgaac ttacacaacg aagctcgtag caaatatgaa cgacaatgac 120  
 atttactcgc gaagtcctat tgagtcctgt aatatatcga gacgctcgaa atttanaatc 180  
 gaagctcgta gaataaacga acaacaataa cttttacttc agaagtcgga ttgagtcgcc 240  
 taatatatcg agacactcaa taattanaac ccaagctctc agatacttct aacgacaata 300  
 actnttactc cggaagtnct attgagtcgc gtaatatatc gagacgctcg aaatgtanaa 360  
 ccgaagcccg tagcacattc gaacgacaat aacattccac tcggaagtct gattgagtc 420  
 c 421

<210> 29639  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29639

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 aatgttattg tcgttataat ttgcagagag cttcgggttt aaatttcgag cgtctcgata 120  
 tattacggga ctcaatcgga cttccgaggg aaaagttatt gtcgtagaa ttatctgaga 180  
 gcttgggttt taaattttga gtgtctcgat atattacggg actcaatagg acttccgagt 240  
 gaaatgttat tgcgttcga atntgctacg agcttcggtt taaaaatccg agcgtcacga 300  
 tatattacgg gactcaatca gacttccgag tgaaatgta ttgctggtcg aatntgctac 360  
 gagcttcggg tttaaatata gagcgtctcg atatattacg ggactcaatc ggacttccga 420  
 gtgaaatggt attgctgttc gaat 444

<210> 29640  
 <211> 595  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29640

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ataanntnnn nnnnnnaagt cttgagaccc atggttggac accactcgat anaacagcga 120  
cacntaaaga catgcgccgg gctcaatct gactgcgatt agataagttc ttacgatctt 180  
actgacagca gaccgttctc tgttcatagc gatgcttcac gagatgcaac gcacctgaac 240  
cggactgcca ctagagaaga caccgaccatt tgaacgagag gagagcttgc gtaagctaga 300  
gcggagcgag ttactatacg acgcgccga acacgacttt gatgtgcaa gacatgacta 360  
atcgaactac acgagagcgc gcacagttca aagcagagcg acacagtata cgatgcactg 420  
gcattggagt gccatacgac acggccagac caactgagct gctcgatgag cttgcgcgac 480  
gcgtcgcagc ttagaatata ggactcaccg gacgacgccg atcgaaccat gtgctaatac 540  
acatgcggca aacacgaccg ggggttggaa atcacgaaca taccgtacat cggct 595

<210> 29641  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 29641

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taaaaagtta tggccgtaag tatcggtcga gagcttctac tatcaatttc tagcgtctcg 120  
atctgttacg ggactcaatc atacatccga gtaaaaagtt atggtcgttt gcattggctg 180  
agagcttcaa ctttcaatat caagcgtctc gatatgttac gggactcaat cagacatccg 240  
agtaacaagt atggccgttc gtattggctc acagcttcaa ctttcaattt caagcgtctc 300  
gatatgtta 309

<210> 29642  
<211> 199  
<212> DNA  
<213> Glycine max

<400> 29642

tgacatctca actaacadat caaactgtac aagactatta tagtatgctg tttgaatacc 60

tcacccactc aagtgtatca cacaattatt gctctttctc taatgaaaca ctcttgccctt 120  
 taaccactct aattcccctg agttcttacy caattcaaga gattatggcc acaacaaaga 180  
 acaattcacc aatatgtgt 199

<210> 29643  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29643

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 caatctctcc ctttttgatg atgacaagcc ctgaaatcaa cacaaactat attcaacatg 120  
 atagcccgtt cacacaaccc ttactcgcg c tatcttgtgc catgtatgcc taatgataaa 180  
 cttctaatacg atttctaacc caagtcccaa gtgctctcaa gatctctccc cctttggcaa 240  
 catcaacaag aactaagcag cacaatcaaa attcaaacag atcaaacaat aaaccataat 300  
 acatccagac attgtcataa ccataccaat cagagtcaag aaacataata tacctgcaag 360  
 attaccatat ctaagccata ataagcccaa ta 392

<210> 29644  
 <211> 59  
 <212> DNA  
 <213> Glycine max  
 <400> 29644

cgacccggag acctatacat ccgacactgc acgcatgcaa gtttgtgcat tcagtatcc 59

<210> 29645  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <400> 29645

toggacaatg atttctgtcc acaagttagt catatacagc gactttcaaa ctcccctata 60  
 tttaacaatta tgcttgcctt caagcaaaga aagaacagtt cacttgcctt cagtgacaa 120  
 agacagaggc cattcaaaag ataatggagg ttgattcatc aaggacatca accatatgaa 180  
 ctgaatatca tggaatgctt aaatcaacca ctactcaca acatgcagca ttccaaatat 240

aggagcacac gtattatagt cacagctgaa ataagctagt aagcatgata gaaatcaatg 300  
aaggatcatc atccaaaatc tcacagtcac tgtttcactc aaactcaagt gttgaagctt 360  
attccatcat aaacaaccaa cacaagttac aacctttgca tttaatcttc tatcatataa 420  
ctatgaacac a 431

<210> 29646  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29646

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gcgagccctc caggctttcg tgaatagaat ctgcgagaat ctccattgga tgattgtacc 120  
cgagcatact ctatcagaat aacggtaacc agcaacgtga attacgcttt aggagaggt 180  
cataactcta gagcgagtac tatagctacg acttgtggct cctcgtatgg aacttaaaag 240  
ctaggatcgt cgataatctt taaataggag agcacctcta ctctcatag acgatcgctc 300  
catcattctt gagaactgcc aatgaggcca ttaagaatgc ccctaagtta tatactttca 360  
ctcgccgact cccccgcct tgaggaatct tggctgacca tcaacg 406

<210> 29647  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29647

cgcccagctc tctcatgcga gcanggttgc tacctccata ttcacagcc ttatggaagg 60  
cccaacaggg ccatatagat atctacacac ccctgcatac tacatgcacc accttctat 120  
cttttatctg aatacttatt ccgtaacggc acgaaactct atgaatatcg tcccataacc 180  
tatttttctt acgcaaggat acgaattctt actgatgatg tatccactct aacttagctc 240  
tagaacaagt tacggaaact catggatcgc gcacaaacat atattattca attcccgga 300  
cattagggaa tttcacgaat cactcacgct tgcttacatt tagattctaa gacagcacgc 360  
gacttcattt attgcacgct actcaacaaa taatcaccgg acgaaattag cgtatgacat 420







<212> DNA  
<213> Glycine max

<400> 29652

gcttgtgttg cttccacgag tgagagaaga tataaggaag aacaaacttc tgcattttgc 60  
tttatatcaa actctgaaaa aggctttgta caaacctgct gcattcttta agggcatact 120  
gttttcacta tgcgaggtat tttgcttggt tctatgtag tttttgacat tccaaattaa 180  
taattggtgg atattttctt aggttctatt tgtggcatta tattaattct tcaattatgg 240  
tatattttgc tctttcatat aataatattt caccatcct ttacggtgag ctgcatctga 300  
tgtttcttta ttataattgc tggaatatag aggggggaaa ttaactatga accgtgtttt 360  
gcaaaatgga aaatatggaa taacatgtat atggaatggt aaatgaacat gagacagtga 420  
ccagttatgt ttatgacaca ttgtgaatga attgtttgtc gtcattggg 468

<210> 29653  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 29653

aatacacgca cagaaccgga tcgccacatg cgagctatca tcgtacttag agatggcaac 60  
ttgttttatt ccgcgggtct tagctttgaa cgtggggata agcttctgaa tggcaaaacg 120  
cccctccttc cgttatcaat gttatatatt gaggaccagt gtcaccaacg actaactacc 180  
ttttttttgc ctagattatc tacatcgccc ataaacttat cagacaacat cacactgata 240  
tgtcaaagac catagattct aagacacact tgtttccgtt atgactcccg tgacggacca 300  
tactctgatg ctcttccac tactgatgca tagatccaga ccccaaata gatagcatct 360  
acg 363

<210> 29654  
<211> 560  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29654

tattcggaca acatcgtatt tatntctcaa aacatattga cgtatataat tgtagaatta 60

tatannnnnn naagagtgat acctggtttg acccattgaa aacctcaact agnnacaatg 120  
 tgccnaccta acagaagcga tcttatagac agtttcagtc atgatgttgt gccatcaagc 180  
 cttggcggca gctaaagaag gcccgtaatt gctatgttgc gacaggtgtt cattctggaa 240  
 taaagcaaag cacgctctta tgtggacaga ggcgattcca acgtgactct tgctgaagat 300  
 gcgtgacgtg tcaagtgtgc gatcatctct agacggaaaa cggccctgaa tggcgtcact 360  
 gagaagggtgc ggagagttag ctgtacatat ggatggcaga gctattttga aaggatttga 420  
 tgcacacaac agacgtcngg cactgctgtc atacaggcca ataatgggtgt ggtacagata 480  
 cactgaaaga agtagccaca aatgatctgc gaggacatgg taacatcgtg cgaggcagaa 540  
 ccgatgaatt cttgagcacg 560

<210> 29655  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29655  
 aaggctaagt tttcatgttg ctctcctat ctctaacaat attttcatgg cacaaaacat 60  
 atatatatat atatatatat atatatatat atatatatat atatatatat 120  
 atatatatat atatatatat atatattaaa gtgagttata ttattttcaa ttaaaagggg 180  
 ggtctacaac aattaaatta aaattgtatc aaaagaaatt actactaagc aattaaatc 240  
 gcacaaaact ttcttttagtg tattattgta ttaagtatat tattatagtg tgtctataac 300  
 atgttgatca acatcgcggg aggatacaag atatatacaa taatgtgtat aatacaagca 360  
 cgccaagaga atattatttc gagtacaatt cacgttctat aatagagcgc actatatgcg 420

<210> 29656  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 29656  
 atctgacgaa gttgaggcag cattacacat tgatctctaa gtacactaca tgaaagcggg 60  
 aacattaatt ccccgacaat caagtatgca ctaagagaac aactagaaat gcattgcttc 120  
 aaaatttcat caccattcaa caaaataatg ttaaccttaa cacatgaatc taccatataa 180

atatgactct tgccaaactg tccaaatgga caagtcaata ttcaatacaa tgattaatgc 240  
 aaactatcca caagaataat tgaattcaat ctcaaagag aatctaaggt tcaatcatga 300  
 tgaacaaaag ctgtatataa agcatagtagc attaatgaca gacaacaacg tacaaaaaca 360  
 tttgtaacat acataagaat cataagttga tggaaaactg tcgtacttgt gatgatgatt 420  
 agtatagtgt ccaacaatga attatgtgat ca 452

<210> 29657  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29657

agccacacca tagaatcctt actatgcctc tggataggaa tgaagcttat ttctccata 60  
 aactgcacag ctatatcatt ttcatgatca aatagattcc tctccacct gagatccac 120  
 tcccagctat cattattaaa gttacccatg ctagagatga gggaactttg ctgtctacta 180  
 atccgaaaaa gttgattata tttctgctca agagtgtagt ctgtccctag ccacttatct 240  
 gtccaaaatt tgattctttc cccactccca accttccagg tcaaagtctg attgaaaata 300  
 ttaggatccg actgatgata tagctntcta atatccctcc accaatggga atgacccctc 360  
 ttgttagagc caagctggaa ttatgaccaa tccccatatt tagaaattac gactcttacc 420

<210> 29658  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29658

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 attaattntt tttggtttac cttctcttcc attgttggtt cttcattntt tctccatgt 120  
 atctcctcac atgtcttggt gtaaatgctt ttaacatgat tcttttagagt ttccaccgat 180  
 taaacttgct atataagcta gatttgattt tctatgggtt aaatttcttg ttcttggtct 240  
 tgaaccatga attgtgttga gtttaagttc ctttgagttt tgtcttggtt atttttgtgg 300  
 ctgaaaccta naccataaaa ttcttataaa aatattaaag tagaagaaaa cctcanaaat 360

ctagagtgcac ttgttcactt attgttgttt gtcatagaag tcatgtctag tcat 414

<210> 29659  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29659

ctagtgtang gtttagaggt atatgttggt gtcgtttgtc atgaccttgt agcaagaata 60  
aatganagaa actgttcagg ttctcgaana agaattctca aggacaataa atattttaaag 120  
gattttcaat taacagatta agtcaaatga ctcttggtct tcacaactca ttttttactc 180  
tcgagaaagc caacttttaa gaacaaaaac atgctaaacg aatatgtatg acaatttaat 240  
gacttatgca aaatgcaatg cgtgaatata ataagtggta aatacaggaa tgatatgttc 300  
attatgatgc catgaagaga tgcgatgatg gtgttgcaac ctacccttcg gcgggagggc 360  
gacgcgagac tcacgggagc atcttccaag gaaggaaaac gcgcggagtc gccacccaac 420  
gttattcgag gaaaatgtc 439

<210> 29660  
<211> 537  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29660

tattcgcacc aacaatactc acagcacact acgttcaaca ttccgcaccc cccccagcga 60  
gtgagcttgg acatagcaac cgacaacccc acgtccgcga gccacttaga ccgcactgca 120  
tttctattc ataaantact tacaggcgca cctgcggtcg ccgagaaact ttacatctga 180  
tctgaacaca aggatacgtt cctgccgaca aaccataatc atgcaatgac acgctctaga 240  
taatgagagg tggacaacgg tgcaacggct gtgaccacct aaactaccgt tatataagaa 300  
cccacttcac gagctactac tctccgtga aaacacgata aattgttggt tcgcaccact 360  
agacagaggt tagaacgtat gaaactcctc actaaactca ttatcgcacc acatatacag 420  
cttcacaaac gagtggaggt ggaaagccat tgatgttgta gagcaggaat ataactaga 480  
aacagtagac tagaaatata caacaggcaa atcttaacaa agctcttttag ggagccg 537



<223> unsure at all n locations  
 <400> 29663

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 taacttgggg tcctgtcttc atgattttta agtttaaatgt gctaagttgt ttcaagtttg 120  
 gtctttggca agtgtgtaca aagatattca tgacccgcta attaatagga aagattcaac 180  
 acctatagga tatgaagaaa ctttttagcgt attgctaaat tgctgatttc ttaatatgat 240  
 gaaagactaa ctcaatgatg tctactccaa tatcaatgat atagagtctt gggaaattga 300  
 gggtttttgc ttaaaaaaat tcanatactg aaagttttat ttccttaata tcttggttct 360  
 ataaagattc caataaacia gaagaaaaga gacacttato ttcanaaat tatattg 417

<210> 29664  
 <211> 104  
 <212> DNA  
 <213> Glycine max

<400> 29664  
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 ttggggtcct ggttttatga tatttaaatt taatgtgcct acct 104

<210> 29665  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 29665  
 agcttgcact gtcaacttag attgcttaaa atattgccgt gcttggagaa cctatagctc 60  
 aacagatgag tcacgctcat cttgcttact ggagctgggc tatctaactt cccatattgc 120  
 atcatatgtg ctgtagccac tctgaactac ttcgacattg atgacactga cagcacctgt 180  
 ccgatagcta gactagatgc tcttcactat gccgcaataa cagagatcac ctgctgaaac 240  
 taagatgcta gcaagaccta tattggtttg agaattaaca tgaattctta tggagaggat 300  
 aactctaact gttattcgtc ataaagcatc tgatgctcat tatctggcat tgcctac 357

<210> 29666  
 <211> 77  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29666

ggaagtcaaa gccgtggact tgatgaatac cttaagctac cagccttgct ntaacttggt 60

gatggaaccg acaacat 77

<210> 29667

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29667

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naaatcttca gaaccaagtc acttgaagaa atgtgacttt tggaaatgta tttttcaaaa 120

tcagtcattg gtaatcaatt accattaagg tgtaatcgat tacacatcaa tagatgtgac 180

tcttcattnt gaattttgaa aattaanatg tttagaaaca ctggtaatcg attacaagca 240

ttgtgtaatc gattacacaa gttaaaaatg tttaaacaca agttgtaact cttgaaattt 300

gaaatcttaa cattntaaaa cactggtaat cgattactac cttctggtaa tcgattacca 360

gagagtaaaa ctctttggta atgaatttgt gaaaacttct tgtgctactc aat 413

<210> 29668

<211> 409

<212> DNA

<213> Glycine max

<400> 29668

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catcatatct cccaaaatcc catacccacg aaatttaaga gagaaagaag tccacccaaa 120

cctgaaattt cgaagtccca ctcgtagaca cgcacttcac gactccgaaa atgctctcct 180

ttcacgattt ggggcagaaa tgatggccaa aggttgaagc tttgtttgga gcttcaatgg 240

agaatgaagg agaagagaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga aaagcttttt ggttctaaat aacaaggggt ctctctgtat 360

ttctattatt ttatttaatc aatgccacat gtctccattt gagtggagc 409



<210> 29669  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 29669

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 tctcgagagc tttcgttggt cattttcaag cttctcgata tagtatgcgc ctgaatcgga 120  
 cttgcacttg aaaagatatg accatttgaa cttctcgaga gcttgcggtg ctcaatatcg 180  
 agcgtcttaa tatattatgc gcctgaatcg gactttcgtg tgtcaagtca tgactatttg 240  
 aatttcttga gagcttgctg tgttcaatat cgagcgtctc ggtatattat gcgctggaat 300  
 tggactgtca tatgacaaga tttgaccatt tgaatatctc gagagcttcc gtgaccgttc 360  
 caggtttaaa taagaagaat caccggacga cgccgatcga acattgtcta gtagacatcg 420  
 tccaaatatt atcggcggat tgaatatata aaacaatacc ggaca 465

<210> 29670  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 29670

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 attgaaggag aaaaagaggg agagaagttg aaatttgaag tgtgtctcac aattttcaca 120  
 ttcacaaag ttatgacaag tggtacacat gtttctatgt atagcctagg tcaactaacta 180  
 tatgaaagct ttcttgagaa gctagagttt aactacacac actccctcta atagctaagc 240  
 tcactctcat gaaaagcttc cttgagaagc tagagcttag ctacacacac ccctctaata 300  
 gctaagctca ctcttatgtc aaaatacatg ataatgctta gctacacaca cccctctaata 360  
 agctaagctc acctctatgc caaaatacat gacaatacaa aaaaattccc tactataaag 420  
 actactc 427

<210> 29671  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29671

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tactactctt cttcctccac cattgaagct ccacacaaag cttcaacctt tggccatcat 120
ttctactcca aatcngnaaa ggagagcatt ttoggtgacg tgaagtgcgt gaatacgagt 180
gggacttcga aaatacaggt taggggtggac tcactttctct cttgatttca tgagtatggc 240
gcttacgaga tatgatgggc agacttgcta tgttactgct gtgtgatgat tatttgagaa 300
gacattagct gaagcttgat gaaattgcc a tgattgtatg acttatacat acccattatg 360
gtcaaggttt taggacgatg ttcgtatgct atatgcaaaa tgctatggaa actgta 416
```

<210> 29672  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29672

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tttgaaaatg gatctttttac tctgtgcctg caaggactgc tgacccttcc acctgatagt 120
tcacgcgcatc aaatagacaa aatatatcat aagatataag tctcacagtt cataaataga 180
gagagccaca cagtcaaaat aagcaaacta accatgaatg caaaaacaaa tattgaaata 240
aataatacca ctattatgtg tagtgcagct ttccaacttt tgtacctaac tgaaggagac 300
ttgtcaatca cttgagagcc tgtagcagat gcaatactgt aattaatgaa gcttcattgt 360
gagaactgtg gtacaaccta tagtgacaga caattagtca tcattata 408
```

<210> 29673  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<400> 29673

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gcttgatgata tttatactat atatgtgtgt gtcttcggtt atctctacct gtttaaaaat 60
gtgttaattc actcctcatg tgttggttat gtttggatca tgtgatgatc ttaaaccctg 120
cgtttgtgag agcaaagtac taggtgaatt actttaagaa accttgtgat gaaggactcc 180
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gagacacaat attttgatag gatgtaacat tggaacaaga gtttctatct taattgcatg 240  
atgtatcaaa catgtcattt tactctatct gataaacttg aacagtcttg ttttaagtca 300  
taaataatttc taagacattt tatttggtaa cagtgaagcg aatgtgaaca ttatccacgt 360  
gaacttattt acgatcttat tgaataaaat tgatttaatt agattccgca ttgtatatat 420  
gtttctttca tatatatgta tgttggagta caatgtgtga gagacatctt 470

<210> 29674  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 29674

agcttgctct gtaagtctta caaacttact ctgcaagttg taaaaatttg ctatgcaact 60  
ctcataggtc tctataaaat gtacaatgta actaaaaatg tttgggaatg aaattaaatg 120  
tcacacttcc gcaaatttta cgcaatgctc tctttctctt actctctatt tctctctctt 180  
tctatctttt agtttcaatt cattactaat agatgtcatc cctctctttt tgtgtactca 240  
aagtcagaat ctgtaatgta cagtctaata tatgtagagg atatcatagt cactgcaaat 300  
gactctaaac tgatttataa actagtttac ctattttctt tacaagatca tggagatctt 360  
aattattttt tgagaattga agcagctaata taagttgatg gctcacatat acttactc 418

<210> 29675  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29675

tgactcgagt tatcaagaga ttataaatat gtggccatgg cataataatc catcatcttt 60  
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taattttctg attcatttct cttcatcttt ctaaaagttt ttgttcaagc actttctctt 180  
ccaagaaaag ttctttgttc aaaaacttgc gctattcatc cttttcattc tcttctcgct 240  
ttgccaaaag aacgaaggac taaccgccta aattctnttg tgtctctctt ctcccttaca 300  
aaagattcat aggactaacc gctgagaat tcttttgatt cttccctttc cctatagcat 360  
aatatttcaa aggactaacc gctgagata tctttgtccc aacacattga agggtacatc 420

ctttgtggta caagtagagg gtacatctac tncgggattt tataactga

468

<210> 29676  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29676

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agcataatta aaacccaaaac ttaactcgca gatccctcat gtaaggctaa gtttcaatcc 120  
tgcttcaatc aagttctaaa gcaacagtac atttcccaat gctaaagtca cctaactatg 180  
cacacaaatg ggtgatcaga ccaaagcat acaaacatta agcattgaag gaagcattga 240  
acacaaaaaa cataatcaat tagatattgc gtatttacat caagtgttca ttaaaaatcc 300  
tcaactaggg tgtttagcca gccattacaa agaaacccta ataataaatg agattaanag 360  
cagagaatga tagttccata cataagacag nggattcctc ctctcttct caacatctca 420  
cac 423

<210> 29677  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 29677

catctatatt tgcatatgat gcgcaagaac ttatttccaa acacaattgc tcaacattct 60  
taaggctcaa gctcctctta taccaataaa aagaaatgtc tggtaacttc attcccgtgt 120  
acttctcata cccatatcca ccatcacaac ttaagcgtat tttgatagat tggtctaate 180  
tattattggc tcatgtaatt atagaatgac tttaatgata agatgggttg tagacttata 240  
tgtattaaag tcattgggag ttatattagt ctttagaatt agttccctct cttctcattt 300  
cattaacggt aattttggca ttaaagacca aaaacttg 338

<210> 29678  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 29678

agcttgtaat gataccttga tatttcactg agaaatcaga gaccctaaat tatgatgatt 60  
acaaaaaaat gaagataatt caagtaaata taaaaagagt acatcataga aagaatatta 120  
caagaagagg gtaagagaga gtcttcggc attcttctta catgtttata tgtcataacg 180  
agttaaagat tatctaacaat gaatttataa atgcaatctt agaaaaaaaa aagaataaga 240  
aagtatacat ctcatgtcat tgtaattgag atataaaaaa tagtcatatg acaggagaca 300  
atggtttcaa tgtattccat aactatagct ctttgagatc c 341

<210> 29679

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29679

tggcaggcac atgcacaagc acttggttanc tcatacaaaa tatacaaggc ctacattcta 60  
aatgccgttc attcatagtg agagagtctc acagtttata tataaacgga gatatcatca 120  
tacaatttcg tctcaattag acaaccaaca tgacatgaga aatttatgaa tgaaagattg 180  
ctatttgctt tttctttgta aggacaggag atggtagccc aattcataga agacaaatan 240  
tctttaggct caaagaacat tcctagaaga cttacatttg tctcacccca tatagacaat 300  
tcagacgagc aatgacttaa aactataacc tgtttgatgc aagaccttat cttgttccat 360  
ctgactaata tcttgttcgt aaagatcgct atatgt 396

<210> 29680

<211> 416

<212> DNA

<213> Glycine max

<400> 29680

agcttggaga gaatgcttca atggaggaaa agaaagaggg agagaaagag agaggggggg 60  
agcacgaaat tgaaggaata aaagagggag agaagtggaa ctttgaagta tgtctcaca 120  
gactctcatt catcaaagtt acaataagtg ttacacatgt ttctatztat agactaggta 180  
gcttccttta gaagctttct tgagaaaact tccttgagaa gcttctttga gaaaacttcc 240  
ttgacaagct agagcttaac tacacatacc cctctcataa ctaagctcac ctccttgaga 300

agcttcctta agaagattcc taaaaaagct aaagcttagc tacacacacc tctctaatag 360  
ctaagttcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataat 416

<210> 29681  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 29681

tccatcaata cagaggcggc gagcctgatg acatgcagga accatttggg ccctcacttt 60  
taaactttct tttgctatct ctaagactca aagcatgata gcacgcagag aataacatcg 120  
tcttctgcg cttttgtcat ccagaggcgg cgggcccgat gacatgcggg aaccatttgg 180  
tcccgacat ttttaagcttt cttttgctat ctctaagact caaagcatga tagcacgcag 240  
agactaatgt cgtcttctgc acctattgtc atccagaggc ggcggtccg atgacatgca 300  
ggaaccatct ggtcccgcat ttttaaacat tcttttgcta tctctaagac tcgaagcatg 360  
atagcacgca gagactaacg tcgtcttctg tgccttttgt catccagagg cgggtgggccc 420  
gatgacatga gggaaccatt tgggtcccaca 450

<210> 29682  
<211> 64  
<212> DNA  
<213> Glycine max

<400> 29682

tgcttaaatg tttagtctag tgatatccgg agaaatttgg cttcacagtt aattttgggt 60  
tctc 64

<210> 29683  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29683

gcttctaagg aagttttctc aagatagctt ctcaaggaag ctacctattc tatatataga 60  
agcatgtgta acacttggtg taactttgat gaatgagagt cttgtgagac atacttcaaa 120



tcttctctat tttcctttt

379

<210> 29686  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29686

agcttcatca atgaaacaag gaaccctttc cgtcacggag tacttcacaa agcttcgtat 60  
catatgggat gaaattgaga acttcagacc tgaccccact tgttcttgca ccatcaagtg 120  
tacatgctca gtcctcacca tcattgcca acggaaatta gaagaccgag ccatgcaatt 180  
cctatgagga ttaaacgagc agtacaacaa tgtgagatct cacgtgttgc tcatggaacc 240  
catgcccacc ataccaaaga ctttctctg tgtagcccaa caagaacgtc agctatcaat 300  
tccttttcaa atctcaatct tgaatcanaa gaaaacgttt ccattaatgc cgtcaagaat 360  
acttgtgaat tctgcgagc aaatgggtcac accgaaagcg ttggtacaag aaacatgg 418

<210> 29687  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29687

ttccaaanag agttactaga gacatgtag taagatctct tgattatgca attggtgtta 60  
cttttggttg ccattgcctg cttaaaccatc taaacactct gttaatgaga tcttcaatag 120  
gaaatatttt tcccagtgat gcaagatgat taactatatt agtaaattctc ttttgcatat 180  
cttgtaggt ctcatattga ttcattctaa acagttcata ttcattgtgtg agagtgttta 240  
ttctagatct cttaacatca gttgtgcctt catgggttac ttgtaatgta tcccatattt 300  
cttttgcatt ttacaattt gagactccaa aatacttctc cattcttctc taagtttttc 360  
tatcagtgca tatcccacta ccattgcagg aatgaaggga ccaatgtcaa tggtttccca 420  
tatatntaaa tctatggctt ctata 445

<210> 29688  
<211> 175  
<212> DNA





aggtatgcag aaataaaaca aatcctacac cagtatatatt catttacgag tataattcat 360  
tatgccacac atatataaat gtgtacaaac attatgtaca tcactatttg ttataataaa 420  
ttgaa 425

<210> 29691  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29691

ttttcattat atattagcat ttcatttgcc tccttacatt tgatgcatca ttgggtgtctt 60  
ctagcagtga tgatatgatt tttataagat aaccaaagt ttacttcttc caaaattgag 120  
gtgtttgttt gggttgtaga aatcttcata tttgatgtta tgcttttacc ctttatttca 180  
atgttgattg ttctttcatt gcctcaccag acaagatcta agagggtctt ggaaattcaa 240  
caattgaggg agcataataa agagtatgac atgaagacaa caatatattt ggtaaagaa 300  
acaactaaaa ccaagtttgt agaaatagta gacgcccatt tctgcctcaa cattgacctt 360  
aaatataacg atcaacaatt aagagcaaca gtgagtctcc tgctacttgc ttgattatgg 420  
tatatgcagt tacattgaan acgtgaggt 449

<210> 29692  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 29692

agcttcttga attcatgttt ctctcacgag aagtcaaagc tgctagaaga gaattcacia 60  
ctgtcgacca acgtggcagc ttgtgacaat aatgattcac acgtctctta cggagggaac 120  
acaactaccc tgcatatgat tccatagtgt gacattgcta gacctcttcc agctgtccaa 180  
gtagagaata tgtctggtat aaatacaaag gtgtgtgaat ctggatcttt cagctacagt 240  
gagaagttgg accatttggg tgatccacat gttgatgctg caaactcata tgaaaataca 300  
atgacatttc tggacccttc ttcatcttat tctgcttcat ataatgcaca tgatcaacca 360  
gaatctccat tgcaaactta tggagat 387

<210> 29693  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29693

agcttcatga tgacgaatca agattaattc aagttgtttt gatgataaca aagatgatga 60  
 caaaaagctc acgagaatga tttcaagatt gagtcaagaa caattcccaa gagaatgatt 120  
 tcaagattga gtcaagaaca attcaagaat caagagaaat ttgatttcaa gaatcaagaa 180  
 tcaagaataa tcaagatcaa gattcaagac tcaagattca agaatacaaga gaagactcaa 240  
 tcaagataag tattaataaag gttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300  
 tcttntacca aagagttttt actctctggt aatcgattac tatgttactg gtatcgatta 360  
 ccaatgacaa agcttggtttt caaaagcttt caacttgatt tac 403

<210> 29694  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 29694

tgtaacgcca taagcaatgg cgagaaagac gatgccgcca ttgactacag cgagacatgc 60  
 tgtgactcac tgcccatgcc gccattcata ctggcgggac atgctgacta ggaaagatga 120  
 gcatctcgcc agtccttcct gcgagacacg agcccatgcc gccattggta ctggcgggac 180  
 atgccaacgt ggacagtccc gccattggct cctacgagac acgttcacgc catgcttaag 240  
 tctgaagatg ccactgttga tgatgagact gaagcattgt gatgcatgct atgggtcaaa 300  
 ggctagggct gtggttcaca tgcattatat gcagaggctg aagcattttt ttcgtgatgc 360  
 aggctagggc tagagttgta gttcacatgc attctgtgca agtatcacat gcatacagtg 420  
 tagc 424

<210> 29695  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29695

agcttgtagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180  
ccccatcaat cctcccaagc tttcccaaca tcaaagtaaa acgacattca aacagcacia 240  
gctatcacag ccaagcaaaa cagagcaaag gcagataact ctgccaaaac accaaccaaa 300  
tcacagcttt tctcacttan agactccaat aacaattcct tcgttcgggt tcattaaccg 360  
ttggatcgac tcgaaaantt tactggaagt ctttagtaca taagcctaca t 411

<210> 29696  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29696

tgctgccacg gagttntccg actatgctct tgtgtggtgg aacatgctac aaaaggagag 60  
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120  
gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180  
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
ccgtgatatc gttgagctgc aggagtttgt tgaaatggat gatttgcttc acatagcaat 360  
ccaagtggag caacaattaa taaggaaggg agtagtggct aagaggagtt ntaccaactt 420  
tggttcttct agttggaaag acaaa 445

<210> 29697  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 29697

agcttgtaa ttaacttaga gaaaatcaag atcaagcttg ttgcacatc gctcgtgtgt 60  
atgatatcca ctgcacaagg tttgaagtag aggaaacctt caatcctata acgcaacgtg 120  
gcggacaaaa gtgggcaatt aacttgaatg gccattattg tcaatgcgga aagtattttg 180

cgcttcacta tccatgttca cacattattg ccccaatata tagatgttgt ttacacaaat 240  
gaacacattt taaaagctta ctccgcacaa tgggtggcctc ttgggaatga agcggctatg 300  
tctcctctaa tgacgcatgg acactt 326

<210> 29698  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29698

tcagtcaaaa gcattgacaa tccaatgcac aattaggtag gttgtaaagc tcaagcaaat 60  
aacacatcaa tgtcaaaatt tgaagacgat taattaggtt gtaaagcaca atcattcaat 120  
taatgcatca gaagtgcttt atccaatacc tagcttgaat catcaaaaca ccaaataaag 180  
ccataaacac aatccaattc aattgcaa ataaaaggtgt cacaagcttg tgttgtatga 240  
caaaccaa acataaaagca atatccaagc caaagttgat ggctattgaa ggagtaagtg 300  
cacctttgtc cttgaatata tataaagatc accctataaa aggaaacaaa tatacattta 360  
gtaaaagtta atgttaagat cgcataactn gagagcatga gaacctagat gtgtagttat 420  
atgcaagcat tcacaaagt 439

<210> 29699  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29699

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctcaa cgcgaacttt 60  
gaccattgtt cttccttccc gcgatgettc ttttcatgtc tgcttgagtg ggcttatagc 120  
ctaaaccata cttccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180  
tttttcctaa acccatcccg ggctcataac cgttcccaa cataactcgg gccatcatta 240  
ccgctgcac ggacagactg ggctgcccc agagggagtc cacggaggat atgttgacca 300  
cctcanaaga ctggaaagca gtttctaacg attcttctgc ggcttcaca taaggcatgg 360  
aggatgggca gcttaccaag atatcttct cgcctgacac gatgaccaag tgccccctta 420

<210> 29700  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29700

atgaaacaac gagatgatgc gctccatgag aggctggatc aaatggagaa tagagatcat 60  
 actgaagaag aaaggatgag aagaggggaat gactgggttc ctagaacaaa tccgaattga 120  
 tggattaan actcaacatt tcctgcatat aaaggaaaga atgatcccga tgcctacttg 180  
 gagagggaga tgaaaataga gcatgttttc tcatgcaaca actatgagga ggaccataag 240  
 gtgaagcttg ccgccacgga gttttcgact atgctcttgc gtggtggaac aagctacaaa 300  
 aggagagagc aagatatgaa gagcccatgg ttgatacatg gactgagatg ataaagatca 360  
 tgatgaagcg gtat 374

<210> 29701  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29701

agctttgagc tataatcctg actcaccata aaccttgacc canggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa aggaagagaa ggaaaatttc caagcaaaaa aaaggagaga 120  
 aggaaaattt ccaatcaaag gaaaaaaaga ggaaagaaaa tttccaatca aaggaaaaaa 180  
 gagaggaaag gaaattccca atcaaagaat gggagaaaga aaaaaaaaag agagaaggag 240  
 aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagacat gtgcataaga 300  
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaatcata acctacaagt 360  
 ggtcttctcc ctgtgattac caatcaaaat cctgtgcgtc ggtgacttgt tcgcctcgcg 420  
 tca 423

<210> 29702  
 <211> 441  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29702

tggatattcg gcctgacgag ggattgaggg tttagtaatt tatgctgcaa catacaaacac 60  
aagagcatga ttgattagag aaatatatTT ctatgcatca gcttatttgt tagaaagacc 120  
caacatatct acctactggt gtcattttat ttaccttgca ttttatagct tttagcatac 180  
aagtttagtt tagattttgt ttgaaattat cacttataca tgttctctca acaatgcttc 240  
gattctgaac ttaattcagg gtaacattag ttccctgtgt tcaatactca gattcattcg 300  
ttttaatttt aaatacttgc tgatctggtg cgctctccga taaaccccg tttacatttc 360  
cttgagacat agatgcacaa aaagtaactg caatggcgag tgagcanagt atctatggca 420  
ccattgccgg agaactaaat t 441

<210> 29703

<211> 249

<212> DNA

<213> Glycine max

<400> 29703

agctatagat attctatagg gattcagggc tgtccatcag ctctgataaa tctgccatat 60  
actcagccgg tattaggcct catgagctat ctcatattca gcagattact ggatttagct 120  
tgggtgatgt ccctttcaga tactcatgtg tttccctttt atcatctaga ttaaatgtat 180  
gtcataatgc tctcttgctt tccaagataa ctggcctgat tcaggaatgg agcaaaaagt 240  
ctttatctt 249

<210> 29704

<211> 459

<212> DNA

<213> Glycine max

<400> 29704

tagggttcaa ctcaatcaat cagatttaag ctcataatgg gtgcttagga ttcatcattc 60  
atgaacaggg taagctatTT ggctaagtg ctaattcaat caatcacaac cttcatcatt 120  
tccaaatcat gcattcatta agtattcaga gattcatgca aaaattggta ctcaatgcta 180  
gtcgttctct cacaattaaa gatcacacaa ctcaactgggt tatggctaatt gattacattc 240

actatattatc tgtcaaacaa actaacaatt tcactcacgc ccctaattca tgtttctttct 300  
 cttctaatta cctcatactt attcaaagca cgtgatctaa cattgcaatt cactcaagtc 360  
 atgcaatcaa tcgatttcag aaccaataac atacaccaga aattttatacc ataacatacc 420  
 actgcataac aattaataaaa ctgtaaactg gtcaaaact 459

<210> 29705  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 29705

agctttgtga agctcctgtt ttagctttac ccgattttac tcaaccattt gaagttgaat 60  
 gtgatgctag tggagttggc attggggctg ttttgataca aaacaaaagg cctatagctt 120  
 atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180  
 atgccattgt gagagctctt gatcattgga atcattattt gcgttctaata cactttatat 240  
 tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300  
 atgctaaatg ggttgaattt cttcaatctt ttaatttctc ttcaaaatac aaggatggta 360  
 agagtaatgt ggtggctgat gcactttcaa ggaggtatgc ttttaatttca at 412

<210> 29706  
 <211> 208  
 <212> DNA  
 <213> Glycine max  
 <400> 29706

ttgagcagat gcatacgaca ataacctttt tactcggaag tcgtattgtg tccacggata 60  
 tatacagacg ctcgaaattg aatggagaag ctatgaccat gtttatacga caatgacttt 120  
 ctcaactata gggcggatcg agtcctgtaa atattgagac gctcgatatg aaataccgaa 180  
 cccctgagct ttttcaaacg actttcac 208

<210> 29707  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations



<400> 29707  
 agcttttgtt atcacctaaa aaccattntt taaagggtcca acgccttgaa atgggtcattt 60  
 tcgcttttat tgggttaaacy tggattttta aaaagcctaa aatcaacaca tagctttgtc 120  
 acctctttca aaaaaaaacc aagagatcat taatgggtcca atgccttaat attttctccc 180  
 ctttcaaaag aatcgaaaaa tcgtttaatg gtccaatgcc ttaaataacc ttttattcaa 240  
 tcaaaatata tcttgcaaaa aaaggataaa aaaccaacgt ttagttctca nagaactacg 300  
 tangtatgat ttccttatca caattgagga atacgtagga gtaagggaaa cacccttgt 360  
 cgaccacaaa aagataanan atacanaagg cataaaagac ataaaaaacg ta 412

<210> 29708  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29708

tgattttctgg aacttaccgg ttgaagaccg aagaacgaag aagatcgaac aaagaacgac 60  
 gaataacggt tgacaatctt tgcgaaatca cccacggaaa tgtcacggaa acgttacgga 120  
 agcgcctccg cttggatttt cttcacggaa acaatttttc tactaattg taagtgaatc 180  
 tcagatacca ggagggttga aaatttttgt tcttccctcc tccccctatt tataggaaaa 240  
 ggaaggagaa gcttgccacc cagctcgccc agatgagcta ggttgcttcc tccagaaggc 300  
 accacaatga tgcttgtttt gcacaacaat gctctttctg acttccagaa tggtgcgaaa 360  
 ctttacggat tgcgcaacag tgcttggttaa acatttcaga atgttaacga actatatgga 420  
 tngcacaaca attctcggtta aac 443

<210> 29709  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29709

tggttggtgc tnggataacc ggacaagagt gtaatgcana ttatgcaatg gcatgaagtt 60  
 tttgccacca aataataaca acaatgtcag atgtacgtgc aattggtaaa aaaaaaaaaa 120

aaaaccactg ctgcaagata aagcaactgt cattcatgcc tggccaaaaa aaccaaagat 180  
 tttggcaatg ttctctttgg ctttgggtctt tnggatggga actaatgtgg agctgagaaa 240  
 aaaaagggtg gaattgacgg taacgcttac aaagacatga agaacaatca tgtgtcccgt 300  
 cgctttcaaa cgcctcacgg aacagacaca acaacatccc tagaaaaatca ttcacacaaa 360  
 taaagctgaa ggctccaaat tttgaacgta gactnagcta gtgtactagg caaatgacct 420  
 cagtaagtgc tattttttaa c 441

<210> 29710  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29710

agcttgaaaa attgatagag ttttattctt agatttaata ggaaatatcc aagtgtacct 60  
 ggaaaaggca tcaataaagg atacacagta tttatgacca gcataggaag tcaaaggctc 120  
 ccacaaatct gtgaagataa gctocaaagg agagtaaaca gaaatagaag tgtgaggtgg 180  
 taatctatga gattttttcca tcagcaggaa gaacaaaaat cagaaaatat tttagtagtt 240  
 gtgggaaata ttacaatgat tgaagactag cttcattaca tgactattag gatgagctaa 300  
 cctagcatgc cagagactag caatactagg agaagaaaca acagaattgg aaaccacagt 360  
 agagttttca ttaaccgtag cagctgtaat agacaagcca gtatctgaaa ttgagta 417

<210> 29711  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29711

cgcggctgac tcnctcggac tncnnnnnta tttagagtgt ctcnatctat aatgcgcctg 60  
 aatcgaacat ccgagtgaaa agttatgact ctttcaatnt ctcgagagct tctcttgctc 120  
 aatgtcgaag cgttcgatat gtgatgtgcc tgaatcggac ctgcggtgaa agtatgacct 180  
 ttgatttctc gagagcttac gttgttcaat gtccagcgtc tcgatctgtg atgggcctga 240  
 atcggacctc gcggggagaa gtttgaccat ttgaattgct cgagagcttc cgtcgttcaa 300  
 tttggagcgc ctcgatatgt gatgcgcctg aatcgaacat ctgagtgaaa aggtatgacc 360

gattgaattt ctcgagagct gctttgttca atgccagcgt ttgcattatt atgcgcctga 420  
 ttcggacttc cggtgagaag tcatggccgt gtgatttctc gagagctccc gtgggttcagt 480  
 tccaggctct cgatatatgt ggcgccg 507

<210> 29712  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 29712

agcttgtgct tttacgaaaa gggttcttgggt gtcaagatga agtatggaag taaccatctt 60  
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 atttagggcc gtcgatgtcc ctgttacttc cagtttcacc ttgacgaaga tgtcatggac 180  
 catgttgaaa atctaaattg attcaacccc atatcctgcg taaaaattcg caatacttca 240  
 gctgtgcac attcgcatac atccatgttg ttcattgggt gcattgctca ttgcattctt 300  
 tccttaaaaa aaaaaagaac ttaatcattg ttataaaaaga aaaacatgat ttacgggtgcc 360  
 ctcatcgaac ctgtgctaga gctagagtaa 390

<210> 29713  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29713

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 gngggagttt gcttgggtgga taatttaaaa ggtaagaaac aacaacacac acaacaaatt 120  
 aataaaatgt tctatgtgtt aaaaaaaaaag agagtagttc aaataaagtg tgtgtgcttt 180  
 tagaaciaag tcaagtgaag gactagcgag taagctaagt ggattgaaaa gacaaattgc 240  
 gtaagtctag aagttgtgct ctcttagact tcaagctatt gcattctaga aaaaccaata 300  
 tttttttttg tagccaaaacc tcaactacaag ctaataaaaag tccttctgat tcaatttgtg 360  
 catttctaac attatggcat gagatgaagt acaaaaattg gacctcttgt agttgttatt 420  
 gtaaatagct tanacacttg tgcgtgagtg atacagt 457

<210> 29714  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29714

aggggacgcg ctggagcctg attgacgctt tgaactcggc ccgggacccct taagccgcct 60  
 gctgcatgca agcttgagac tttacacgng tgttctttct tgacgagctt tacaaccgag 120  
 acggtcttat ctctaaccag actcccaacc actatgatac gcctgccatt tctgtaacag 180  
 atgactccaa agaagataac gttactgcac ctaacatcca ggacatacaa actactttat 240  
 ttactcgatc agtccactgc ncaatcattg aaaccatgaa atgcgtcgtt ggtgtgagat 300  
 agcacagtgc atagatgtct atgatcttta gcaccgagcg gtagcaacga agctcgcgca 360  
 aagtaatgtg tctacactgc caattacaag tgagaaggaa ctatcccgtg gctgggatac 420  
 ttctatctag gagttggcca acatatgatg gctgatgtaa actcagatga ttaagtatc 479

<210> 29715  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29715

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 tgaaatttat aatacatgag ttgacacatg caagcttata ctaattttaa tggaagatct 180  
 tccttgttta attttatttc atagttcgaa atcgccaaaa taatttataat ttcaacttat 240  
 ataaatctct catgaagttt aattttgttt cgttgtttgc aattgccaca ataatacagga 300  
 actgagcgtg gtagtagggg tgcttctatg cgtgcagcaa taaatgacac tgtccctgaa 360  
 ccaaataccc gcttactgca aaggatatttg attgat 396

<210> 29716  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29716

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aatccagatg gaacttgacac tgggatacga tataatggcg gtgacagtct gcttgaagtt 120  
ctcaacaagg aaactaatag agggatatgtg cccctagcga tgagtatctg tgaattgtat 180  
ctctctcaca cgtgtgccgc tgtgccgagc tcagtgccag agaaccattt tctgaaatgt 240  
aatggtaatg aacaggaagt atcagaattc agctgacaga gtaacattga cacaggaatg 300  
ggcgccagac caaggatggt gatgtgatgc aatactgttt tttgtaccga tgggtgcttg 359

<210> 29717

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29717

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ccaagaggca gccgctctga tattgttaat gcaacagtta attgctctta tctatgggat 120  
tattatcaga tcttgaggct gacaaataac atgctcttac aaaacaacat gcgagcatca 180  
gatcatgacg aaattatgac tcttgcacaa cggattatag atattgatga tgagattatt 240  
ggacatgaca atgatggcta cgctactatc gaaatgtcac atgaactatt attcacagaa 300  
tataatgac ctattcatag catagttagc tctacattcc tagattcatg tcatcatcac 360  
agtgatcgtg aatacttaca attcacagca atattagctt ctac 404

<210> 29718

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29718

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acgcntgaaa ggaaagaacg tgcttcaatt ttatgagaca atccgccata tatagtagtt 120  
ttcagggccg atntacctat cccacccata ccccatatac caaaggctct aacttcttgt 180  
cggcgcatg taaagaatga ttcaatatgt gtacaatgct cctaaattca actagtcctt 240

tacgttgatt tggatatcaag aggcaattct tgccaaacat ctgcacaatg tccttaagta 300  
 tttaggatca gtcctatcta ttaaagggat acactataaa ataaaaatga togatgcgta 360  
 catatctatc aaatccaaca aaaagaatta tcccgatgcc ctacaatgat ttacagtcta 420  
 caacagaaat agtcatgata atatgggtgtg cggagacata acaagatttt attaggaatg 480  
 aaaccctgct taaact 496

<210> 29719  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29719

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 tgggcaacag agctcgagtc tatacgattc atggccttca tcatgttctg agttatacaa 120  
 atcattctat aattcctaata gtaattttca gagttgccta tactatgggt gacgcgaata 180  
 tctaagataa ggatcatgag gaacttatat ggatcgctga tacaattgac ctaatgtaga 240  
 tgtcggatta aatgatagag agagagagag atatgatatc ggttatg 287

<210> 29720  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29720

agcttatagt ctttacttat tgagaacaat aagccaaagt caatagttcc tatataacga 60  
 agaattcatt ctgcggcctt gagatgagta gtgggttgag tctccatgta togactgatg 120  
 agtctagtag catatagaat gcctgatttg tgcacatcac atatcgcana ctaccaccca 180  
 cactctggaa attattagca tccacctttt ctgcctcatt gaactgtgat aacttcatct 240  
 tgtactccac cgttgttcaa agtggccttg agctatccat cttgaatttc ttgagcatct 300  
 tctat 305

<210> 29721  
 <211> 372  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29721

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ggaatacttg ttcgtatcag aggatgacaa tccaaacaga atgacgcctc atgcataccta 120  
tgtggcaaaa ataacccatg ttaggtaaat tgggtcacaa atcaccattt ataattttac 180  
acgtaaacad gtattacatg gacaatctaa tgatatttaa gcggtaatgt ctcttaagaa 240  
gttttcaaac actttacttg ctactntcca ctgtgtttgt cacaccaagt actatgagaa 300  
ggcaatagga ccaattcttg ttgatcctat aactaatatt aacatcctat aacttcgtgc 360  
atttcacgtt ga 372

<210> 29722

<211> 372

<212> DNA

<213> Glycine max

<400> 29722

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tcggactctc agccacttat gatagccgcc aatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt ctcatgccc catcccatgc cttgcgaact ccttgagta ccctcgcgtt 180  
gtggtcacta aaatctcgtg cgatgaaagg cgtgattgat gcaagctcca ttggagcttg 240  
taggcctagg atcttcttca ccaatggatt cctttgcttc ttggaagata aatggcagcg 300  
gaatggagaa ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa 360  
gctcaccacc at 372

<210> 29723

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29723

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tgtctaaagc aataattttt gctttcatgc tagaatgcga aataataagt tgttcagtag 120

atttccatga tactgcacca ccaactaaag taaagacaac cacttgtcga ttttggttca 180  
 ttagaatcag aaatccaatt tgcatacta aaccctcaa ttacatccta atctaccaac 240  
 tgcataatgcc atgtcagacc cagagaaagt tgtcaaatgc aacaaagaac caataatttg 300  
 aggatattta tgtgaaaaaa ttcttttact canacttttc ttttaacttaa tggatgagtc 360  
 ataagaagta gaaacatggt tcacatcana ataattaaac ttcttcaata gcttttcaac 420  
 ataatgtgat ggggttaaac ccatgtatca tt 452

<210> 29724  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29724

atntccttgt ttctattaa cacaacctgt acctgcgcac canaaagaaa tgcaagaaga 60  
 ggtcgtatta ttctcatgag ccctangata gattttgggc ccatgggcta agtatgagcc 120  
 cacttatctt tgtacatatt agagtaagat ttcattattt ttggatcttg tatttatggc 180  
 tccataatgt aggtagggta ccctagaaat gtaagatttt tcaaccattg tattttatga 240  
 cacctagact agtatttgta ttatgggtag ttctgtaatt tcacatgcat taagtgaata 300  
 tatgatgtgt gtgttgcgaa atacaattaa ttgaatcgng tgaagcccaa tccaattaa 360  
 ttttataggg ggagat 376

<210> 29725  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <400> 29725

agctttgaaa agtgggtggtt ttcaccttct cgctaagcca atccgctgtc ttagcgagcg 60  
 tccgctaagc gcaacactca ttggctaagc gcaaggaaga atctggaaga aaatgagctg 120  
 taccagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct 180  
 aagcgagaaa ggcacgcgct aagccgaaat tcactaatgt gcgctaagcc ggccagaatt 240  
 gcgctaagtg cacgagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga 300  
 agggagtttg ggctaggatt cagagctttg catgtctaga gattctagag agag 354



<210> 29726  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29726

agcttcacca ctttatgctc atctctattn ttttctaacc tctntgtcac gaaatcccta 60  
 tgataaattc tatgcaaaac gcctctccta aactaaaatt ccaaaaaatc tttttttctt 120  
 caaaaactac tccctacatt ggctccaaca ccaaccaatt aactctatca accatcaaag 180  
 catccaagcc acccaggggc ggaactagag aaaaaagtta agggagacga aaaaattaac 240  
 acatgattat gtaaaggaga catgaagaag aaagttgtaa tattaactt aacatgttaa 300  
 aagctgaggg ggacaaaatt ttctattnta agtgcagtta ctaatgaatt gtgattnttt 360  
 aggagggacg gatgccccctt ttgagatggt tgtagttccg cccttgaagc cacca 415

<210> 29727  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29727

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 tggggagaga gaccagnaag acccatataa gatctttatt tatgtaccta tttatgagta 120  
 aatactatat gcattgatag tgtaaagagt ttttatataa taattcaatt acaaacataa 180  
 atttattgat ttttatgata agtatcttaa agtcagatca gcaagaattt atgtggaaac 240  
 taaactcttt attcattcac atatacttgg gtaagtgtt tttatgatta tttccgccct 300  
 taattaattc aggttgggca gataaaattc atggtctaac gggctcagct gacgggaata 360  
 tcatgcacaa catcttattt ttttattatg gagaagcata tacttctact ttatgctgca 420  
 tgttcaagag aggtgtactt atatt 445

<210> 29728  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29728

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agcttgatag cttgtataag aatatgactt cagggagatt caactntcac ccaccatcac    60
tntatacatg caaaaactat ctttgtcagt tacataatct cttgatgcta gtttgggcat    120
gactatgttg agcagaaaagt tgttgatgag cctgcacata tgtgagggtta gcggtcctca    180
gaaagctgac caaaccttc ttataagatg attttggaca ctgttttcca tagagcatag    240
agtccactgt ttcacagggtt atctccttc                                     269
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<210> 29729  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29729

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cttccttgat ctctttgaac ctaanggatg taccctccac tagaactgat ccacaagaga    60
tgtaccctct cttggtttca gtcaaaccac agtagatgta ccctctactt gtgccacaaa    120
ggatgtaccc tccaatgtgt taagacatag atctcaagct gttacacctt tgatactttg    180
tgaatgggga taaaaagga atctcaggcg gttaaccttc tgaacgctgt tgtattangg    240
aatgggaaga ttcaaaagaa ttctcagact gcgtcgtttt gaattctttg acaagggaga    300
agggagacac aaaagaattc aggcggttag tccttccttc ttttgtgaaa gggagaagag    360
agacacacaa agaat                                                  375
```

<210> 29730  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29730

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ttttatgcaa gcttctttct tattccanac tccttcaca aaatctgatt ttaggcttaa    60
ataggtagcc ttgttcgtgc ttatgcgctt agcgcaattc tgaactgctt agtgcacatt    120
agtgaatttc ggcttagcgc atgcgtttct cgctcagcgg atgaactgaa gcggtgcact    180
tagtgagatg aagcggtgcg ctacgcgaac ctgtatagct tacttcttcc agattcttcc    240
```

t c g t g c t t a g   t a a a t g a g t g   t t g c g c t t a g   t g g a c g c t c g   c t a a g c c a g c   a g a t t g g c t t   300  
a g c g a g a a g g   t g a a a a c a a   c a c t t t t c a t   a a t c g c c t a a   t t a a c c t g a a   a t t g a g a g a a   360  
a a t g a t t a t t   a a a c a c a c a a   a a t g g a a g t a   c t a a g t a t t t   a t t a a c t a t a   t t   412

<210>        29731  
<211>        429  
<212>        DNA  
<213>        Glycine max

<400>        29731

t c a c a c g t g g   t t t t g a t a c a   a c a g c a c t g c   t g c c g t t g t g   g a t c t t g t a t   t c a c t c a t a a   60  
a g g a c a t t a g   c g c g a g t g t c   a t t t a c t c a a   c c t c t g c a t c   c a a c a t c t g g   a a c g a t c t t g   120  
a g a a a c a t t t   c a a c a t c a a g   a a c g g a c c c a   g a a t c t t c c a   a t t g c g g a a a   g c a t t a c t c a   180  
a t t g t g t t c a   a g g a a c g a a c   t c c a t c a a t a   t c t a c t t c a c   g c g a t t c a a a   g g g c t t t g g g   240  
c t g a g c t g g g   t g a a c t c a a g   g c c a a t c a c a   g t t g t a a t t a   t g g c g g g g t t   g c t c c a c t t c   300  
t t g c t t c c a t   c a a a g a g g a a   t t t g t c a t g t   c a t t t t c t a a t   g g g t g t c a a c   g a g a g t t t t g   360  
c c c a t g c t a g   a g g t c a a a t c   t t g t t g a t g a   a a c c g a t t c c   g g a t a t t g a t   g a g a c c t t c t   420  
c a t t a t t g c   429

<210>        29732  
<211>        413  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        29732

a g c t t c a t c g   t t t g g a c c t t   g g a g a t a t g t   t g a g a g g c a g   a g c c t c t c c t   a g a g c a a a c a   60  
g t a g a t g g a c   a a g a a g g t g g   a g a a g c a t g g   a t c g a a a g g a   a a a a c c a a t t   g t c g g g a t g c   120  
a c t t c a a c a a   c t a t g g a t g g   g a c a a t g c t g   g t g a t g a c g a   a g g a g t a t g g   a c t a a g g t g a   180  
t t a g t a a a a a   g a c c g c g a a a   g g t t t g a a g a   a g a c c c t g a a   g g c t g a c a a t   c a a a c g c a a c   240  
a c c t a g t g g c   a a g g g g t a a a   c c t a c a c g t t   a c c a t a t c a a   c t g g a g g g a c   a a g g a t g a c a   300  
t t a c g t c a t a   c t a c t t c a c c   c a t t t t c c t g   a c a a a g c t g a   t g a a g a g t t n   g t g t g g a a g c   360  
a t t c t a a a a a   a t g g g g t g a t   g t g a g a g a a g   t t a c a t a g c g   a a n a g g a a c a   a t a   413

<210> 29733  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29733

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 agctggatag gtagttacaa cagaaagctt aactaatcta actaacctaa caaactagct 120  
 aactaacgca gtgctgttaa gatctttttt atcaccaa ataatcttata atcttgtgat 180  
 gcaattcagg gcattaaggg gatggaacac ccaatattgg cttaggtggg gcactaataa 240  
 gcttgtatct tctccccctt aaaggagtgt ggtagagtat gaattatcat gcacaatgtg 300  
 aagctagaan atcacctact ccctaaagt tgactggtnc tagtggaat atttgactg 360  
 gttaaattaa attggttga attntntagt ctaattatgt tcaacctgaa caaatgaat 420  
 cgatcctctn tgtgatttat aaactcgtcg gttgagtcta atta 464

<210> 29734  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29734

agcttcgatc ctgatcaagc ttgtcacata aaccaatcct aagcctagaa catgatctta 60  
 cacaaaccaa attggggcat gtttcttaat aaaattgctg ggctcaaat cagctccaca 120  
 tttcaaatc gagagggata aaaaattaaa ataataaact aagtattggg acttggttag 180  
 gcttcctggg tcttaaatta aacatattat caaacaacgc acctatctaa ttgacattat 240  
 tcaccgtgtg tcataaatga attgatggac tacaatatcc aaattcaaca accaatatga 300  
 acaagactca natgaattca ggatagcata atgatccaaa ctacaggtg gttacataaa 360  
 cgattatgta cgactccgc tatcaaagcc actgtccgcc ttcaatgcta aacctgctc 420  
 agcataatga 430

<210> 29735  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29735

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aagctgcaat taaggcagca cctgaagagt ctgcaattaa gccgggctag ggatgaccgc 120  
cattactgtg gcttttcaac aataagctta taaaaatctt gaaaatacta cattcggtg 180  
caggagcaga attgcaatta tcaaaacatc aattatatta gttaccactt atcaacagtt 240  
caacacttgg aactttngtt aatngaaaat ccctaagtat tcatttttgg ccacagttgt 300  
aactcaacaa ttntccagat ttcagatata gaaaggcaat gcacaccaag ttgttgatgt 360  
ttctgatact cttcaactca ttggtttcat gaatntccag cagatcagct tcagttntta 420  
gacaagagta ctgcgcatcaa tcttctatca gatcatttgg ngggggcatc aattaca 477

<210> 29736  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29736

agctttgata ttttcttttc agcattctct ttatcattaa ctgaattntt ttagaaatta 60  
caaagttttt taggaactaa attntattta atgaatctca ctcatgattt tatagtttag 120  
taaatttttag ctaataataa ataatagcta gagaaatagt gtaatgatag ttgggtggaa 180  
tataaggag taaaacattg agagatttct atcaatgacc atgaacaaat tacacaaata 240  
aatttgatac cacattaatt caattcaaaa ccttanaaca tttggattgt gagtctcatt 300  
ttcttggatg atattcaact tgtccactct tattcaattt gngattntat atttcatacc 360  
aacctttcat gcaatattgc ctaatggcat tngngaagat tcacaagtag agact 415

<210> 29737  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29737

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aataataatt gttaacttat tgacaaatac accaaattgt cacaagtaat aaaattaaaa 120  
cgaaagttcg aatgtcgaat ttacaaagat tttggttgta ctttagttaa tatataccta 180  
atttghtaagc aagagataag aaattgtaat agggagaaga aacaaaaaat tgtaattaaa 240  
aggcaagaac aagaaaataa acaagaatga atgcacttga taatttcaga atttaaataat 300  
ggtaggggtct agcatgccca actatccttg atgcaatggtt aaaatgggttc tctattttaat 360  
ggtagtntaa ttntcattca catttactan aacactcaac tctgatccct catgatgaag 420  
agttcagttt atgtattctc tcttctaaat ttct 454

<210> 29738  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29738

agcttgtaat cttttatata agctattgat gcttaacaaa aggggagaga aaaatattat 60  
tttcctcatc ccttgagcta acttttggga ttgagttagg cccaaaattc acattctgag 120  
atggtagcag agccctagcg ccttcctttg actttcgcac acagacccta gcgtcgttca 180  
acccttttct ttttcttctc catcaccatg tctcactcaa actctatctt tcacattgct 240  
cttggtgtct ccaacatcaa gaattatgtc ctaatcattc ttaagatgga aaatgtccaa 300  
tacgtgacat aggtggaact tttcaaacc cggtagcat tttttctcgt tgtctctctc 360  
anactctctc ttttacctta tctctctcaa atcacttccc ttaccttacc ttcccttcat 420  
c 421

<210> 29739  
<211> 373  
<212> DNA  
<213> Glycine max  
<400> 29739

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taaagggttc cacccttcaa cccaacacaa tctaacttaa attctagaaa aatgaagtgg 120  
acaccacaat tagcaccoca ctcatccttg atttatcatt gttttaaaaa atcctacaca 180  
cttttaaaat tctcaataa atagaataat caaggttacc aaaattcata ataaaaaaag 240

gtcattgatg atcccccttat tgccccattt tatctaacgt atgatggtga atatctaaat 300  
 tgatctttga agtatgacac acgtactata tatgtaaaat ataaaattaa ataagttttt 360  
 gtcactttgt cat 373

<210> 29740  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 29740

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 gaatagcatc agcataatct gtcgacttaa tttgtagaag caatgggttaa gatcataagg 120  
 tagtacatcg tattttattg gattcgggtg aggatgtaga tatgcaaatt aggttcctaaa 180  
 ttattctacc cctcttcaat ttgtagttat atgttcatta gttaaactca ttggagaaaag 240  
 cgattcatgc agcacaaatc tggcacctat tcttctcctt agataaacat gcagtgatat 300  
 ataaaacatc gtgcattata attctatctg aacatgtatg ttgagatact atgggagactc 360  
 ttgactttct agttcgaagt gtgatgggat tctctgaaga tgggaaatat attatatcat 420  
 g 421

<210> 29741  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29741

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 ctttataatg tttgtctgct tgtgcacatt ctctctgtag atcatgtctt tcttcttttt 120  
 cataatcatg aagttcatta agctctgtca gatccttttg aagatctttc agtttgcttt 180  
 acaaggcttg aaaagtcttt aacagatttt tcttggcca ttatctcatt ctcaagacat 240  
 agcttggact ctttctccta agagtcacac ggctttacat gtctgagtgg actcatctgg 300  
 tgatacatct acttggctct gaaggggttt ctcacgtcta aaatgatctt tgaatagt 358

<210> 29742

<211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29742

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tgtatgcatg caagctgcag ccttcgactt ctgccacatt ttctatgcat aggcgataag  120
agaacggata acatgttcac ccctctgggt gatttgagat cacttggagg gagtgaaaaa  180
catcatctcc gtgaagaaaa ctccaggccg aggcgctttc ataacgttta ctgagcattt  240
gcgcttggga atgcgtgaag attctcaacc attgcttaac gttcttcggt cgcgctttcg  300
tcttcaaccg gtaagtccgc gcgaatcgaa cgtttcgatt gacttcatgt tcccttagcg  360
gcctcatttg atctacgtgc tattatttca agatatctac tgatcgacc actttgggcg  420
tgcattagcc attaacttaa gtcactgtgt tcgactactc tgaacagctt atatggctac  480
cctggccaat cgtagtggtg                                     500
  
```

<210> 29743  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29743

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ttnnnaaacc tcagctttca tcacggggcg tataataatt aaccgccaag aagtttgctt  120
atcactccga acttgactag gtataacctt ttgaataaaa tgaacttgtc ccatggtttt  180
actccaaaag tcaatgcgaa tcaaatcatt ctgcattttt atttctagcc tgccctcata  240
tgatgcatcg cataagcatc tcttcatggc atcataatga acatatcgtg cctgcatttg  300
gccggtatca tattccaaca tcacattntg catgagtcac tggtcatca tgcatatgcc  360
gtcaacatac gttttggtct acaaactgca taccttggtg ttggatatat tcatgatgca  420
ttctgggttg catatatcc ggaccatgag cccaccatgg tgggatcata naccocgttc  480
acttanaaac aaaatgagtg aacatggcac cctatggcat tgtaactan gaan          534
  
```

<210> 29744



<211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29744

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 ttaatggtga atttccaccg tggagatgct gcggaagaca aaggacaaga ggtgagaaga 120  
 tgcgccatgc actaaggaat aaacctatgga agaaggagct tcaccaccat aagcagcctt 180  
 agatatgaag cttggataga ttgcttcatg ggggatatga aagagggaga gaacgacaga 240  
 ggggggggagc gcgaatttgg acgaataaat ganggagaga agttgaactt tgacttgagt 300  
 ctcacgagac tat 313

<210> 29745  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29745

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 gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120  
 tcaccncat gacaaaaaac atgaaaatac caaaaaaag tccttactac aaagactact 180  
 caaaatgcc cgaaatacaa gggctaaacc ctatactact agatggcaaa atacaaggcc 240  
 caaacgaag aaaaacctat tctaataattt acaaagataa gcgggcttat acttggccca 300  
 tgggctcgan atctacccta aggctcatga gaaccctang gccttccttt ggatctctag 360  
 cccaatctac ttggagtctt ct 382

<210> 29746  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29746

attaagcana ggcattcaca ccaactannag gggagganag agcggaaatg cttggctctg 60  
 atcaacattt agatcccaat attgcatccc aacaactcga aacattatca aagctctaac 120

cagtagttat tggatgctag tatctatcat tgccagaata atgtagtaat caacatgtat 180  
atgataataa tataacaatat ctactttaag ctagcacact tgccgcaact aacacaagtg 240  
actctgaggt gagtaagctt gactagaact acaaattatg aatattttct atatctaaac 300  
aacatgtatc atttattgga tataattatg ttcagatcaa atgggattag aacaccagtg 360  
acaaaactct ccttatg 377

<210> 29747  
<211> 408  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29747

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cggtggtaac ctgcactagt gtaagagttg taagtttgtg aggcattgtct agctccccta 120  
tcttggacga cttgtgagta tgcttcttct gacaagttgt attgagagga catgtgtttt 180  
gatcttgaag catagatata cgtgtcangt ggatgatgtg cttatatatg acaattcagc 240  
cctttgatga tcattggagg atgcattgat cacgaatgta tcgctctgtc tataactaca 300  
tgcgagtgca acacacacat attactctag catcatgctc actcatgaca tgggtgttga 360  
ctagatatgc attactcggg cgtgtggagc tgcattcatc nttatagg 408

<210> 29748  
<211> 442  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29748

cccattatat gtggtactag gaggcggtct gtcgattgtg cacaacagac tttacacatg 60  
caccaatcgc gcataaacct accataacct gttgccacc tacaactgag ctcaagtact 120  
cccacgtagc ccatatactc gtttctetca acaccgggtg ctcatcaatc ctcccaagct 180  
agcccaacat ccaagtaatt caacattcaa acaacacaaa ctatcacagc gcagataaca 240  
gggcagaggc taaaaactct gcccaaacac caaccaaact cacagctttt ctactttaaa 300  
gaccccagta acaattcctt cattccagtt cgttaaccgt tggatcgact canatgtttc 360

actggaagtc tgtagtacat agacctagca tttgaccggt gcgatctagc attaaacacg 420  
 cacaacgcat tctgcatcac tc 442

<210> 29749  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29749

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 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120  
 gtgtatttgt tacctatatc acacacattt cctttgctaa attcacatac atgcatactc 180  
 taagcacttt ggctatcaaa aattgcatac gtgcacatcc tgggtatttct aatacctata 240  
 catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300  
 tttntctttn tcaagtgttt ttactaccta nagccgcatg caaattcaag tatattntct 360  
 tttgtctcact 370

<210> 29750  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29750

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 tgataacggt ggaatttatt ttgggggaga gttgtgtttt gttatgaact cttccttagt 120  
 tggctccttg aatctttctg attgggcata ntaactctaa gtttagatat atgtaaaaaa 180  
 atctgaatta tgttctgaca tttgaaagat gagtagtggg ggaatatata tatatatata 240  
 tatatatata tatatatata agcatgtatt tgctcacgtg tttgtgagtt gttggatgaa 300  
 tgtacatcac acaannatta ccatcgttnt cacaatcaaa ttaatgggag tttcacttat 360  
 aaattgaaat gtcacatttt tatagtagtg attgtagcga caagacgggt cgttacagtg 420  
 gcac 424

<210> 29751  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29751

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 gccattgcct ccctcgccca gtattatgat cagccgttga ggtgcttcac ttttggggac 120  
 ttccaactat cacccatggt ggaagagttt gaagatattc tgggatgccc actgggagga 180  
 aggaagccat atctttcctc tgggttctat ccctccatga caagagttgc caaggtagt 240  
 aatatctcag cacacgaagt tgaccgtgta aagc 274

<210> 29752  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 29752

accttgaatt aatacctttg atagcacttt tgagccttgc ttccctttcc ttggtatgaa 60  
 gctcactaca agccttaagt gataaacctt gatattacca tatccttaag gaattttgga 120  
 gctttggaat ggatttggga ataagtgtgg ggggtttttg tttcattgga caacttgttt 180  
 tgttggctat gttcatgat gtattttgcg ccatacttga tgtatattgc atattggtta 240  
 aatgctggac atgctgaatg aaatgttggt tcctaaaggc taaagagt 288

<210> 29753  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29753

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 ttagggatca acttgaaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120  
 gtgaagatgt tcaaagtttg gctatgaaga tggttcanac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcgctggatg 360  
atattgatat ta 372

<210> 29754  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29754

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cttaattnta accaaacaaa gttacgtact aaacaagact ttgaatgcct gcagatnttt 180  
ctcanaagag ttgtccgcca ggtaacactt tagtgactnt ataagaaaat tgaacttgca 240  
ttcgatcacg anaaaaatga gaactaatnt gaattatatt aactacttat atcaaccctc 300  
gtcaattnta tctacatatg catacaagtg taattagatg agtccgatcg ggtctgagcg 360  
agggatcaaa attacgtggg ttctgttagg gttggagaca atatcttcta attaa 415

<210> 29755  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29755

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tgcaatcact cgacgagggg tggggaatnt tgaaatgaga gacagaaggg tattttcact 120  
gttgataggg gctaattgca aaagagttag gggccaatag caacacccaa actcgtttta 180  
gaatacaagt cataatcctc ctgattgggc cttcgagtaa aagccattc acaaaatgga 240  
tgcaaacaca gttttgaaat gggctttgta gccagggtcca aatctgaagc agctgctatt 300  
tttggtttgc atctctctct ctctctctnt cttcgctagc caactcaacc cagtgcagcg 360  
agtaaagctt tctctctctt gttccttcgn nggetatggt cttcttctac ccttcgcgaa 420  
tggattc 427

<210> 29756  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29756

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 ttactatttg aataatttga ttttttttta aaccagattc catgcaagca tataacaatca 120  
 tgccagtaat ttatgcacaa ttgtcaaaaa ccaatcgtac aggaaaaaaaa actattcatt 180  
 ctgagcaagc catgcctcaa ttattatttt ttcattgtcaa atcagataaa aaatagcttt 240  
 taattttgca taaacaatta tgtgagcaac actactcctc tcataatata aatatttgat 300  
 tntggttgcc catagaccat aggttttaag gcttgaggg agcagaatgt gtcagcttca 360  
 gatcagcagg aagcaagttc actattttgt tntacttatt ggaacagaaa ggtatgtgtn 420  
 tgatgggccca catgggtccc tctgtatctt gat 453

<210> 29757  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29757

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 ttttaaggaat tttctttgat gaattcaacg ctccacgact aatttaccac cctaatttaa 180  
 agtattcatc atacaatttg ttactcattt tttcgcaatc tattattaca agagtctatc 240  
 atgaaataat tgtgctttta aatgaatttg actaatctaa ttcccaagta ctgcactgat 300  
 ggactatatg atgttggaac tcatgagggtg ggaatttttag aattgcacct gaatagaaaa 360  
 gcatga 366

<210> 29758  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29758

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atattaataa cgagatgaat tggattaaaa aaatatattc atcaatattg gtgtgaagca 120  
tgtaaattatt gaaatgatat ataactaaag aatgagaatc ttttggtatg tacaaaaaga 180  
aaggagataa ggaaaaaaga aaacaaaaga caaaacgagt ggaggactgt aaacggaaat 240  
gagcggagtg ccaaataaca tttgtggngg cacgatcaga aattntaatc cattgaaact 300  
gatttctttt ctttntctga ggaggagggg aatggaaaaa agaaatatga gtagccaaca 360  
cagaatcana cttgtccctt annattttta ggggataatg ccatgacaga ttttaattntt 420  
ctatttttgt catgaaatcc ttcacatcaa taattgatgt attatttgaa ataa 474

<210> 29759

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29759

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cataagcaat tatcgactga ttaccacac aattctagcc aactatatatt tgattcttat 180  
atggcccaat taatttatag actgagttgt catttacttg cagatattct cagatctgaa 240  
agctcagatc ttgtcatcac agcgtatttt cttctcactc taacttcana gtcgggctat 300  
aaatttttaa ttctctgttg tttatctgga tacagatcag atatcgngga tatatgctga 360  
gagaattcac ctctcatttt cacacatgac 390

<210> 29760

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29760

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tacttaatta aaataattgg tccctccaaa ttataatfff ttagtccttc aatctcaaaa 180  
aaataatfff ttagtctctt ctgacttatt ttttgcaatt tggatgaaca cttgggggtga 240  
tttttaacca taggagggat tataaaacac attntccaaa tttgatgagt taaaataatg 300  
taaactttat tttgagaaat aaaaatacaa tgtccccaaa ttttaagagat aaaaaatatt 360  
taaatntaat aaaaaataat caaatagttt caaaatctgc aaaataatff aacctanaat 420  
aaagacatca ttatcttatc cccttttggf tttcactcg 459

<210> 29761  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 29761  
agcttgccac acttagcaga agagcttatt tcctatgtaa gacattcctt ccaactcactt 60  
ctacacatgc tcccttgctc ttcatagaca ttctccttct cttcttcctc acctcactat 120  
aataaccaga aatagaaaca gataataatg cacacagtat aaaaaaaaaat acaacgagaa 180  
acaaagatga aacaaatgca aaaaaaaaaa gaagcaaact ttacagcttc tgtggcagcc 240  
agccactacc ttgttcgttg ggggcaaaag aggaagaaga cccactaagg cccccgcctc 300  
tttaaatcac aaacgaaatt cagaacaaca cttataagtt ataacaacca aaaacggctg 360  
gtgtgaagta tgaacaaaat ttataagtca aatctatgga 400

<210> 29762  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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aatcagtatt tccaaagtcc taaaatttgt gattgcaata ttaattttta atgctctttt 180  
tcagggaat atcagcatgg tatgagaatc gtcattgggt taacacttta tgcaagacag 240  
tgatggagca agactggtct tggaatcgcc ctgcacttga ttatctggag ctttaccatg 300  
ctgcacgtaa gtcagcatga gatttaatat acatgaatta agtttcatcc tctttgtaca 360



catntttgtg gtaagcttca gtttgaacac acttgattgc atctggtgaa tccttcaaaa 420  
agataacaac tacgaggtga anagccataa aagatgatga gcttc 465

<210> 29763  
<211> 423  
<212> DNA  
<213> Glycine max  
<400> 29763

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gtcttgatgg cttgtggcac aattaagtct ttgctatttg gaagagaagt tcatgcacag 120  
atgattaaaa gtgatatcca taccaacata tatgtaggaa gcactctggt atggttctat 180  
tgcaaatgta aagaatactc ctatgctttc aagggtgctcc aatatatgcc tttcacggat 240  
gttgcttcat ggactgccat tatctctggt tgtgccaggc tcgggcttga acatgaggct 300  
ctggagtctt tgcaggaaat gatggaagaa ggctgtttgc ctaattccta tacttactcg 360  
tcagccttga aagctcgtgc agaactggaa gctccaattc atggaaacgt aattcattcc 420  
tac 423

<210> 29764  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29764

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taatcatatt tttttcattt gtaaaaaatt aaactcacat attaaaagat ttacaatttt 120  
caaatacagt gttcaattaa taaagttaaa cccgttaatg ataattaagt gtagatagaa 180  
tgatttcata tattttattct gtcaaaaagt ttttattgaa tataaaaaatt ataacataag 240  
gattatgttt caaacaactt tnttctcttt taagatgttt tcatactttt ttactagtta 300  
aaaatgatnt tattnttttt atncaaaca aattaatgaa ctcaagccac tttttacaaa 360  
cttactccga caattttttt taattataat ctatataaca ataattttca ttatcatata 420  
actaatatta aatatttaatt t 441

<210> 29765  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 29765

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 cttatgaaga tgaaacagcc tatatgagac ttgttggcag acttttatat ttaactacaa 180  
 ccaggcctaa cattgctttc attgttcagc aacttagtca attcatctct cagacattac 240  
 aagttcatca ctcagcagca attatagtcc tcaatatc 278

<210> 29766  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 29766

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 aataatttaa gagaaatcat agtaaattctt aacaagtga aatatttata tgttatgaac 180  
 caattaagaa ttataatata tataattcttt aagataagtt ttaattatag ctttgatccc 240  
 taattaatat ttaattgttg gatttaattt ttgtatttaa ttctataata aatatttctt 300  
 ttacgac 307

<210> 29767  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 29767

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 acaataaagc acacggaatc aaaactcgat acgccgagaa acacagatga aagagcggca 120  
 tctctatcag gaccgcccct ttgcacagtc ggaggaagcc acacgctccc tagatcgatg 180  
 ggggcaaaaag aggaggatga cccactaagg cccgcagctc gctgaatttg atgcgatact 240

cagaaccgca ctgtaatagt aaaccagcca gacacgagat gtgcgagaat gagacacatt 300  
tattagtcaa tctatggagg 320

<210> 29768  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29768

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aggacaccta gacganatca agactacnct ccactcgatc agatctagat ggaaccctct 120  
ctagattcca ttacatctac ataaatcaga tttgcttaaa ttgtctgctc tcttcccgta 180  
caagcccaat tacttataat actcctggag taaattaaaa acacagagtt agtcccatag 240  
gccccaacgc ataaacctgc taactaattc gacaatcaac actaatccag cattaaaatg 300  
gcgcccacag gggtacaaat aagacacaat aatggccctc actttggcga agcgctccaa 360  
acacactttg tgacccattg tgcttcatnc caaatatcag gcttgcttgt ttaccattca 420  
actatcactt cttgatgaat gtgatgt 447

<210> 29769  
<211> 235  
<212> DNA  
<213> Glycine max  
  
<400> 29769

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tatgcacatc cattggacat tctcttaatg cagcacggac gtctatgttt gttcctgatg 120  
aaaatccaat ggaccatgca cacgatggga actttgggag taagagaaac aaagactgat 180  
catatgcaaa gacacatgaa ggataactaa cataagtcag ttctttatat acact 235

<210> 29770  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29770

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 aggatgttgg ctcagggatg taaattctga aattgtttta tacgacttta ccaggggaaga 120  
 tggatgttag tggagaatca gtctatgtgg tatagggttc tgcgatggga agttgcatta 180  
 gaagactcan agttcatctt ggtggaagtg agctacatgt ggggtggttgt gactcttgat 240  
 tttattgaga ctgtgaagaa agcagttgga gatggaagga gactccgttt tggttggagc 300  
 catgggttgg gagagaggct ttggagggtc attatagatg actcttttca tcttacttgc 360  
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 tggtggaaga gggatctttt g 441

<210> 29771  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29771

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 ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc anaccaaca 180  
 atgtcattac tcagtcaata acaaacctcc tccttaccba ccaccagtt atccacaaag 240  
 gccatcccta tatcaaccac aaagcctatc tatcgcaactt ccaatgacga acaccacctt 300  
 tggcacanac cacaaaaaca ccaacaaaaa ggaattttgc agcanaaagc ctgtanggtt 360  
 cccccacat tccgctgtca tatgctaaac ttgatcccat atccactcaa taattcaatg 420  
 gg 422

<210> 29772  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29772

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 ntccgagagc ttccgctgct caatttcgag cgtctcgata tattatactc ctgaatcgga 120

cctccgagtg aaaaggtaag accatttgaa tctctcgaga gcttacgatg ttcaattttg 180  
 agcgtctcga tatattatgc gcctgactcg gacctccgag tggcaagtta tgaacatttg 240  
 aattttctcga gagcttccgg tgctcaattt cgagcgtctc gatatattat actcctgaat 300  
 cggacctccg agtgaaaagt tatgaccatt tgaattttctc gagatcttcc gttgctcaat 360  
 ttcgagcgtc tctatatgtg atgcgcctga atcggacctc cgagtcacaa gttatgacca 420  
 t 421

<210> 29773  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29773

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 ctctgagtcg acctgcttta tgcaagcttg attctcttta aattgncaaa caatcagctc 120  
 tggggggccat cgccacagtt tggatcattc cataagaatc cttcaagcct ttgtacgcac 180  
 tcaaggcttt gtgggaagcc tttgaacact acttgagaag aacatcctga tgatgatgat 240  
 cctacgaaag aacaatacca ccatgatatt gtttatgaaa ccatagtaac tatactggta 300  
 gttagatctg caagttctat aggactaact gtattactcg ttatcaacag atgtgggaaa 360  
 tgacgagtat taatatgatg cttgcgaggg atcgcgatgg aactaatanc aaattattct 420  
 aatgtcaaga acggcagtggt tactgtctaa aaaacatcgg tgcttgtttg tagtgatgca 480  
 acgtacacg 489

<210> 29774  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29774

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 ttagctatnn ccgngacact ataaaanact caagcttgta gcatggctgt acatgatata 120  
 tgtcacagtg ttcgcttgcg tctatggcac aaggataaag ggcgctgtcc acattatttc 180

catgacacac catgccacac tgatgattct ggatattctc ttgcaaaacg tggatcatgca 240  
 tgcaccccat gtggacactc aatcataaaag tttctatggc catgtgacac tacgggtcac 300  
 gattcattat ttcctaata aggcaacca atatctctca aatatgcttc tttatcaatt 360  
 catgcattca tcccagtcga tttgcgtgtt cagcaaaatt ctacagcact tacccttcag 420  
 gtgcatacac atttttcttc aaaaactggt gttttgatcg gtgaatcttt ctacaagaca 480  
 gggcgagcgt tatttctttc aaaagcatgt gcctttcacg ccaagacata tctttgcgtt 540  
 tttctc 546

<210> 29775  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29775

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 ttggaatgag attcataatg aagaaatcaa ctacaatttt gcataagcca aagggttaaag 120  
 cagagagaat gtcccaaaaa agtagtcaaa tgctagaatc tccctaggtc ttcgctagct 180  
 caagagattc cttcaccaac gtctaaataa agtttccact agaaaggaaa ccgtcaacta 240  
 gtttctttcc tttcaaaaga gtacgtgcaa tatctgatag tgacacaatt gctgtgagac 300  
 tacccttct caatacaact ccacaccatc aaattatatg caagacaaaa atgagaggta 360  
 atacgccaca attaacttaa catatcatta aata 394

<210> 29776  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29776

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 aaaaaagatt tagtttaaga aattattaga acgaaattaa agttatagat atttatttgt 180  
 aaaagaataa agtttgagca tcttttttaa caagtacact tccgtatact gctccttaga 240

caaatcaata cataaggata ataattatga gtcattttccg aaaactgtga gtatttttcgt 300  
 ttattttatat tggattaagg ggattcacat ggtacaaatc agatacgtag tctcttgtaa 360  
 aaacccaaca agtttttcctg tcatctaata tgcatacact tgttaattat gtattgttac 420  
 a 421

<210> 29777  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29777

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 actatatatt attaaaaaaa gtaccaaact acaatctata tatataaaaa aagactatgc 180  
 caaagntatt actaatttat tacttttctct taagaaatta aaaggaaaaa aataatatga 240  
 aaattataga taagcagaan aaaaaatcat aaataataca attttatata ttccaataaa 300  
 aaatcatggg ttagcattnt tcttcataga aagcgctatt ttttttggtg attattaaaa 360  
 agaaagaaaa gatattaatt taaagaatgt taaactatgt aagtgttaatt aagaggatct 420  
 aatttaatta gttaagtatg ataggtgagt gttataaatc tctttatatt ata 473

<210> 29778  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29778

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 acatcatatt ttttagttga cagcatagaa aaagagttag acgaagaagc aacagcacta 120  
 atcatttggt gctcaactgt tatgaattcc tagtgctcca cctacaatga ttataacact 180  
 aaactogaag aaatgaaaaa ggctntaaca tttcattntg ttcttgacac ttgtctgcaa 240  
 cactgttcat acaggacatg caggataaca ttgttcanac agaattgggg tcaaataggg 300  
 ttgggacacg tggacaaggg ggagttaaag ctgaagagtg tatttggacg tggttggtga 360

ggtaaggggt tggcaatttg ttgcttttagt atctaagaga ggagagagag aatct 415

<210> 29779  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29779

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tctcatataa acgcttgtgt ataagcgctt tttataattg aagtggaaag aagtaaagtt 120  
aaactgggtt catataagct ataagttggt ttcctaaact atcttgaaga gcttatngaa 180  
ataaacagaa aacagctaata aagcatatct taaacactgg tttcataagc tntctcanac 240  
actaacacaa agttcatgag agtaatatat gtccttccta caaattcttt actgcttaat 300  
tcctataagc tcatgtgcat gataagttca caagggattg attaattctgt ttacctaaat 360  
gtcacagggt ggtcatgatt aggggtatnta tacatcagta taatcatacc taataaataa 420  
ctatattata agtgggtatt ataattataa ccataacttt ggttttaaat atgggtatat 480  
aacta 485

<210> 29780  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29780

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gcagtttgac attgtctaac aatcactatg tacaactgga atatattggt cttttaaatt 120  
tttataattg aggatggatg agcttgacat aacaatggta aggttattgc cttgtgattt 180  
ggagctcaca atttcaaatac attgaaacaa tctctctgct ttagaggata tatctgtgta 240  
catctatcta cctcctccag gttccactag gttggagcct catgcattgn gtcaccgtta 300  
atttctatta ttattgntat tcctgcatcc ttcttttata tgcaatgcta tccttaattc 360  
aaataagggtg gatttcagag ttacaaaagg aatcagacaa atgtttgaag agttctg 417

<210> 29781



<211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29781

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atctcccttt ccatcattgg gggtagcact tgggctgcc aatccttcca cctttgggcg 120
tattctttga aagatctgtg cccttttttg cacatgttcc gtagttgcat cctatccgaa 180
gacattatac tgacactgcc taacgaaggc aaccattagg tccttccaag aatgaactcg 240
agaaggttcc aagttagtgt accaggtaac agctgcccc a gtaagacttt cttggaagga 300
atgtatcagc aattttctcat cttttgcgta tgcccnccatc ttccgacaat acatctttag 360
atggttcttg gggcaagtaa gt 382
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<210> 29782  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29782

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ggtagactttc caccatgaag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120
catccacttg ggaataagcc atagaagaag gagcttcacc ataaagatga gccttggata 180
agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtatgtctca 300
caagactctc attcatcana gttataacaa gtgttacaca tgcttctatt tatagactag 360
gtagcttcct tgagaagctt tcttgagaaa acttccttga gatgcttctt tgagaaaaac 420
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<210> 29783  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29783

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acctcccatc ttttatggag tgggttacca ctattggaaa acccgcatgc aaatctttat 120  
agaggcaata gatttaaata tttggaagc catagaacaa ggaccttatg ttccctctat 180  
agtggccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
attagtacaa tataacttaa aggccaaaaa tattattaca tctaccctan gaatagatga 300  
atactttagg gtttcaaaat tgaaaagtgc taaggatatg tgggataccc tacaagtaac 360  
acatgaaggc acaacaaatg ttaaaagatc taggataaac acattaactc gtgaatatga 420  
actggttagg atgaatgtaa atgaaagtat acaagacatg caaaagaagt tcacacacat 480  
ag 482

<210> 29784  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29784

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aaacatagaa aaaggcctca attcatgggt caagcttgag gtttcttaaa ctagcacaaa 120  
cagtacctaa aacaaaacta tcaactgcacc aaaagagatt tgacatgccc caccaacata 180  
ttcaccggat attctagtta actctaaaag ttgtgagacc aaacattttg gacggaagac 240  
atctganact aaaatactgt aaaagggcat gaacctgttc taaaggaata aatcacacca 300  
actgttcaaa gacaggacat gtctaacttc cagcaagtag atttttagag attntaaata 360  
tcctttcaag ctaatttctt acctntact agttacaaat aagagaatgg cttgattcaa 420  
tcctgtaca t 431

<210> 29785  
<211> 312  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29785

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ctcaaattct attgaatata tcccagtgaa taagggatat gcggatatca atgactgatt 180  
 tttctgcttc tctattaatt ttccatcttc cttgggttga tattcttcta nggtggttgg 240  
 agaatcaatt ctttctctct ttttcatgct taagaattaa tactaaggcc ccaaaccaaa 300  
 acattctcat tt 312

<210> 29786  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29786

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 caaagaagcc ggtgctctct ggctctgaaa agtagacca cccaactaac gctatctaag 120  
 tataaataaa caaaaaaat atatatgaga gaggaacaaa acagggttta ttaaacagtg 180  
 tttattatta ttattattat cagaggaaag ggatgaagtg gtccttttgt gagtctcttc 240  
 ttctttcatt ccatttttga tacactacta ctactactac ttgcagcagc agcagcagca 300  
 gcttcttact gactngttaa tcaatcttct ttctttaatt tctttctttc gagtttcatg 360  
 ctctttgtat taatattatt cttcttggtt ttct 394

<210> 29787  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 29787

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 tctctccatg tatctctca cgtgtcttgc gctgaatgtt gttaacataa ttttttagaa 180  
 gttccaccga ttaagcttgc tatagaagct agatttgatt ttctatgggtt caaatcctt 240  
 gctcttgatc ttgaaccatg aattgtgttg agtttaggtt cttttgagtg ttatatatgc 300  
 aattattgtg gctgaaacct aaaccataaa aatcttacca aaacattaaa gtagaagaag 360  
 acctcaaaaa tctagaatga catattcacc tat 393

<210> 29788  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29788

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 agaccagag gtctaagact gactttgtcc acactttata attatTTTTT atcgtgtttg 180  
 tatctTTTTT gtgtatgcta gatccatgag ccaaggaaca aaacccatt catggacctc 240  
 cattgcagat ctactcagat ggaattcgtt gaccatgtct catatttctt tgccctctct 300  
 tttatgcttt gccgtatncc ttgttctaac catggccaat aaacatcttc aagctgcaac 360  
 gaccatgatn tctttgataa ctatataagg aaaatttcta cctcttttgt attgtaaata 420  
 actcatttat aataacatta catgataat 449

<210> 29789  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29789

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 atctgaaaga acttctactc tcgaggaaac tgtttttcca acctcatcac taatccttga 180  
 ctcaatcatg cgagcatggg gaacgaagta aaaggaaaat gtttggatat gatagcacat 240  
 gccaacgcgg tgagataacg gtgtgaatag ccttaaaagg ataaaagtga cgatgatgga 300  
 caatcacgtt tagcatcacc tttttgata aaaaaatgca atgattcaac attgttgaaa 360  
 ggcagatgga attcgttcta cttgaatcta 390

<210> 29790  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 29790

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taaaagggtgg ttcttttgtt ccccatcagc ttgaggcact gaactggttg cgtaaagtct 180  
gggtataagtc caaaaatgtg atacttgctg atgagatggg gcttggaaaa acaagatctg 240  
cttgtgcttt tatttcatca ttgtattttg aattcaaagt ttcacttctt tgctaggtct 300  
tggtaccact ttctaccatg cctaattg 328

<210> 29791

<211> 326

<212> DNA

<213> Glycine max

<400> 29791

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ccaaagcata gttctgatgg gctttatagg gcaacaatag tgagcctcaa gctccgaaga 180  
ggtgaaagga atcttcacgg gtcaaagca tgatcttgaa cgacgagcta aaggtttgcc 240  
ttatgttcaa aagaaatttg cccaacagta agcgagactg aaagaatatg tgggccatca 300  
tcgataattc aaagaaagct aaatta 326

<210> 29792

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29792

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aacgggtcaac atcggtgaca ggagcacgta ctactaaat ggtggcccca ctcaagtgtg 180  
gttaggtgag gaaatataca aaagggtggtt gagactgcaa accagtacga tggggacatg 240  
gaggatatta ggaagcaaag cctagcagca taaattcacc atgtagggga ggcaggtact 300  
atgctntctg atgaggaggg aganaagatc aacaaaatcg acaagaaaag ggaagaaagg 360

gacacacact agcagacaca t

381

<210> 29793  
<211> 451  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29793

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gttgcccca ttcttctatg tattaaaagt caaaattcat taccggccac caggtatgat 120  
gggcaatggg catgcacagt gtccatgttt caagcacaag gggctcttgc atgtgtggga 180  
gttagataca agagttatcc atgtctcttc attcaccxaa caatttaagc ttttgggaga 240  
gttagtttat gacaaaatct atctatcttc tgatgttnta taatcatgct gataatgagt 300  
catgttgcct acagataccc acttaaaaat ccaacatacc tgagaattcc aacgcattgt 360  
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gtagaacana tcagcagcaa taaaatgtgt a 451

<210> 29794  
<211> 349  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29794

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aaagtctgag agaccataca agtttcttag cgatttctaa ttatgtgggc cattaagtct 120  
atcatatgct gacaatagcc gagaagccca tgaatttctt cgggggcgga gtaggtgtct 180  
gccatgcct tggccttggc taacaatcgg ggcagttctt gactcccgtt caagggaaga 240  
gcaaaccgat ccatccacat ggttgctctt tgggtgtaaag agtcgatcac ccttcctcta 300  
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<210> 29795  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29795

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gtggatggcg cctcctctca cctcttttcc tttgtcttcc gttgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag ccccatga agccccacaa 180  
gcaagtttcc atcacatata tcctatcatc taatgattga cacatgacaa tgaatctatt 240  
aaaagttact acaagttctg agaaataaac taacagtggc aaataggatt gatgggaaaa 300  
ggatggatgg tactgtcagt ggggggaaag aaaatttgtt ggggtggtgt cacaattgtc 360  
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<210> 29796  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29796

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tatagaggca atagatttaa atatttggga agccatagaa caaggacctt atgttcctc 180  
tatagtggcc ggaagtgcaa caatagaaaa acctagagca gattggactg aggaagatag 240  
aagattagta caatataatt taaaggccaa aaatattatt acatctgccc tangaataga 300  
tgaatacttt anggtttcaa attgtanaag tgctaaggat atgtgggata cactacaagt 360  
aacacatgaa ggcacaacag atgttaaaag atctangata aacactntaa ctctgaata 420  
tgaactgttt angatgaatg taaatgaaag tatac 455

<210> 29797  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29797

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acataccttc cacatcgggt tggacacagt attgttggcg actgtgtcat cgttttttgg 120  
attgtggagg gttatgagtt aagttgggtg aaaaaaatta ggaatgtttt ttatggctctt 180  
ttgttgtaat gttattggga gnttttttcc tagtgttttt tgttagtcct cctgggtatat 240  
gcgttatagt ttcatagctt gtgatgggtc gaatgctntt ttgggggttat tttgttgctt 300  
gtcaattctt ctcgtaatta tcgtctgggg aacaatcgaa tgtgtgaaat ttagttctac 360  
acaaattgta aattcac 377

<210> 29798  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29798

tgtgctgaga ccctntgaat gtctataatg gagataaaca actcacacaa atgtttctat 60  
ctaagttagt tatcgtccaa tgatcacaga gtacacgtat acacatcatg aagttgatca 120  
atgttctaga aactgtttat tttcattccc tcataatttt tgaaatgcta atcatttgaa 180  
gttcaagtgt atattgagac aggttggcaa aaaggtatat tctctgcaga ctgttgctaa 240  
taaaagtagt ggaaagcata atggaaggga taatactant tttacctttc tctctccatc 300  
tcaagttgcc atgttgcatc attaccagct atgagagaac anatattttc gtgaaggcac 360  
ttaaattcac aacggtcaca tatttctaga tgaccaagcg catcaagaaa caacttngc 420  
aatctgt 427

<210> 29799  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 29799

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tctttgaaga caaggcttta ctatccttct ttttcttttg catttctagt gtttctttct 180  
tatccctctt agtcttcata gatagctgat ctttgaccat ctgt 224



<210> 29800  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 29800

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aaagcctata ttttgtgtct acaagggtccg ccataattaa tacataggat tatgaactca 120
acataggccc attcttgtca tgcaacatga caacttccac actatgctga ataaccacca 180
agcaccctca acttatgtgc ctactcacia caacaacaac aacaacaactt ggatttcctt 240
gaagtctgag aaacgacacc ttcgtaccta ccatctcact catggctagt cttaatgatc 300
caagcttcac aatcaacaac aattcacccc atatacacta aaatggtcac taatgctctt 360
atgagatagc cttctacact ctga 384
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<210> 29801  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<400> 29801

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tggctttcgt gcatctccat ggtggaaaat caccattaaa cgacctcatt gaagctcaaa 120
gatccagccc ccattgaaac cccacaagca agtttccctc acatatctcc tatcatctaa 180
tgattgacac atgacaatga atctattaaa agctactaca agttctgaga aataaacc 238
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<210> 29802  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29802

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atgatagtct tgtgggttcat agtcataagg agatttcaaa tgtagttggt tcttacttca 180
ataacttggt tcaagctaata aacaattgta atgcttttat gcctattatc aataatattt 240
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catcctgtat ttcccccttaa aataatgacc tttttttggc accctttaca attgaagaat 300  
 ttcaagctac cattttttcag atgaactcaa acaagtcacc atgtcctaac tgactcaatc 360  
 cagcatttag aaaaattgca tctttatgga caagaatttn tcactctggc atcact 416

<210> 29803  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29803

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 attttggagc tttggaattg ctctgggaat aagtgtgggg ggtttctgtt tcattggaca 180  
 acttggtttg tcggctatgc ttcattgatg attntgggcc atacttgatg tacattgtat 240  
 attggttaat tgttggacat gctgaatgaa atgttgtttc tcaaaggcta aagagtaaaa 300  
 aaacaaattc gaataacaat aatcgaataa agacaaagat agcaataaag ctgagtgata 360  
 agatcttaat ggccaagatg ataaactctt ggtcactctc atgttcatct tatcttactc 420  
 ttctatctct tattcttctc tcgatatgca ctat 454

<210> 29804  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 29804

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 tatttttttg tacataaaaa ataaaaaata aagactaata tttatctaact actactatct 120  
 ttttatattc tttagaatgt ttataaagtg tttaatcatg agatctggct gaaagtcaaa 180  
 catgactcgc atcttttaag taaagtctca aatttttaatt ttatggaaag aaaaaatata 240  
 gttagaaaag aaaatttcac taaagatgac ttacttaaact tttttgaaga acattaatta 300  
 ttatcaaaat tgatggatc tttactcaat gacttgataa caaagaaaaa acttgacaaa 360  
 agagagagaa gagagatgga aagagcatat taaatcctta tatgttataa actaataaga 420  
 caagatcatg 430

<210> 29805  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29805

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 tattttcgag tcatacaacc caatggtagt gacccaatca attaaggaca agagnttgat 180  
 aggacagaaa ggtattgtga caaggacaac gccagaaga caaaaagata tgcactttta 240  
 tatgtagtta taatacgata gcttctcttc aagaacttta ctgggtaatg gtattttttt 300  
 taagcattaa ctaagttcta attttcta attttctga attaacttct tttcctaaca 360  
 cattattttt ctgggtaatt ttttactttt ttatcaacta actaaaattt tgtttgatta 420  
 gtaaag 426

<210> 29806  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29806

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 aagttccact tttcttcctc ttttattcct tcaattttgt gtcacccct tctctcttcc 180  
 ttttcatcca ttttaagcatc ctcttcaagc ttcgtatcca agcacattct tggaggtgaa 240  
 actccttttt ccat 254

<210> 29807  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 29807

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ttcgactatc attagacccc tgaggaggaa cgcacatctg ctgcttattt ttatatggat 120  
 ggtccagctt aaatgctgat ttcattggctg caccaccacc atatgaccac ttccttggac 180  
 tcctttgctc acgcgctcca gactcgcttt gccccgacat tttatgatga cctcacagc 240  
 aactggcca agcttactca acgacgctcg gtgaacgatt acctccacga gtttgaacag 300  
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<210> 29808  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29808

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 taagctctga ttgttctttt agcagaggag cctcaactt atggtagctc ggaggattca 180  
 attgttgacc gtaatctcca acagcttcaa tcatcatctt aaagccttta gagcatgcaa 240  
 cctcgaaagg aatttcattc tcacggatga attgggcaat gcacgatta gctttagccc 300  
 ttgctntttt aatactagca tcccttatac atgttttctt cttggccatt ccaagagtga 360  
 gttngtttga tagttcaata attctcagcg tattcatatg tccat 405

<210> 29809  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29809

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 ctcaaagaag cttctcaagg aaagtttctc aagaaagctt cttaaaggaag ctacctagtc 180  
 tataaataga agcatgtgta acacttatcg gtactttgat gaatgagagt cttgtgagac 240  
 atacttcata gttccacttc tctccctctt ttattccttc aatntcgtgc tccccctctc 300  
 tctgtctctg cctcttttctt ttactccatt gaagcattct ctccaagctt cttatccaag 360

gctcatcttg gtggtgaagc tccttcttcc atggcttatt ccttagtgga tggcgctcc 420  
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<210> 29810  
<211> 152  
<212> DNA  
<213> Glycine max

<400> 29810

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aacaacattt atcaacactt atccaccaac tataagtctg gacaaatata ttaatctgtg 120  
tgggctgaat gagaagattg tcaacatgct ca 152

<210> 29811  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29811

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aatatgatca ccctcctgaa tctctagcag tcttctacac ttatcttcat aaggattatg 120  
tgtactatgt gaagttttta tgctatcttg aatcaactta atcctctctt cggtttgttg 180  
caagaatctt ggggccccac gaccatattt gcaccatctt ggtaacaaca aaggggtggt 240  
ctacacctcc taccatataa agtttcaaat ggtgtcatgc caatgctaga atgaaagctg 300  
ctgttgtacg tgaattccac caaagggcaa acctgatcct atctacctag atgatccac 360  
acacatgctg gcaaattattg tctaatact atatcgtcct ctgggatt 408

<210> 29812  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29812

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ctaactaact ccactaatat atccagtaac tactcagaaa gaaaggatgg acttaatcga 120

ttaagcccat ctaatctacc taattaaact aattacacaa agcaaaaccc aaattcgcag 180  
 cccaattatt gaactgcaat gattcttagc tccaagccca atttgaccog cgaaatggca 240  
 aaatgtccaa gcttatctgc gaaagataat acaaaatcga atccattctt ctgatctttc 300  
 caagaactac tcacatgctc cattc 325

<210> 29813  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29813

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 ttgatgaatg aaagtcttat gagatacact tcaaagttcc actcctctcc ctcttttatt 120  
 ccttcaattt cgtgctcccc cctctctctt tctctccctc tttcttttcc tgcattgaag 180  
 catcctctcc aagcttctta tccaaggctc atctttgtgg tgaagctcct tcttccatgg 240  
 cttattccct agtggacgac gcctcctctc acctcttcta ctttttcttc cgctgcatct 300  
 ctatgggtgga aaatcaccat tgaaggacct cattgaagct canagatcca gcctacatag 360  
 aagctccaca agcaagcgtt catcataagt atttattacc tatatttaac t 411

<210> 29814  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29814

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 aggctttctc tacaaatcta actattgctt actcctaaaa actacatact cattgtatct 180  
 tttatctacc acaatcagag atcaataata gactttgaaa aacaagcatt ataaacatct 240  
 taactacaac catcaagcac aatcacaagt acaaataac tcaccaaatc aataatcatc 300  
 aaatcataca caaagaanat cattaagccg caatgtacaa ccattatgat tgtcaaaaca 360  
 caaacaaga taatcattga caatcattca atcattatga ccatcaaaac acaaacacaa 420

tcataaaaaa agaanatata aattaacaat

450

<210> 29815  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 29815

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aaaacttatg tcagagtttt cgaaatgcaa gtcaatgtct tgcttttata gactcttcat 120  
gtatgggtcaa gaaaaccatt ggaagagtta taaccttgag aaaaacctga aaaccatagg 180  
aagagttaca tcttttgatt attattcaaa acttgtcact ggtaatcgat tacctgaacc 240  
atgtaatcga ttacacacag cattttatga acatatatga ctcttcacaa ttgattgtga 300  
atgtcaacga tcagatacac tggtaatcga ttaccgatat attgtactcg attaca 356

<210> 29816  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29816

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agaatatgta ttcccatata ctgggggatat gttgctggag tttctaacaa agaagcataa 120  
agctgggaaa gaagtgatga tttgcccttg atttagtggt gtgcttgata aaactacaac 180  
aatggctttc gaagcttcta atttgcaaga attatcagat aattcaagac gttgatgctt 240  
aagggaaggg aaagcaaaaa atcaatatga ctgtgagtca agtgcaaaaa ccatacaata 300  
tttctcaaag aaggtctaca tatgtctcac atgggtggaag tccttcgaat agatggactt 360  
gacagggaca tcaacaagta ttgatgataa ccattaagct gaacaattat gtgctcana 420  
gagatggaac tac 433

<210> 29817  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29817

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ctcatctctt taccttaciaa ttcaggcaat tctatcatta ccctttttca atatataaaa 180  
ttggcaacat gcaaacaat ctaatccagg agattccacc actaatagtc agcctataat 240  
ccataaccaa tgaagtcccc catctccaat ttattccatc ttctaanttt attgtagttt 300  
ctgcagattt aagataagcg ttgggttctt cggntaaca tanatctatt ngttagttta 360  
taattcacc c aattctgcct ttagtcattt tcaacatgca gaac 404

<210> 29818  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 29818  
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aatccttcaa caccttattc acacattctg agagggttgg tgtcatgtga ccatatcttc 180  
gtccagatgt atcataagcc atgctccatt ttctcttga aatgcgatca atccatgttg 240  
ctatggctgg actcaattga tgaaatcttt ctaagtcttg atcaaacaca tgcttgcaag 300  
gagtgtacgc tgcataatag ttgctacat caaaagtgt aggtagatat gaaactaaaa 360  
ttaacttcat gtataacata aaccttacc aatttcttga acat 404

<210> 29819  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29819

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gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180



agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240  
 gggagagagg atgacagatg anaagctggt gcgaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360  
 tgaactcatt gggtcccttc aaacctttga gctangactc tcggata 407

<210> 29820  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29820

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 ccagatggaa gaactcctca aaaagcacgc tcaatgaana gaaagataaa gacaaaagct 180  
 ctatagtatg ctatgaatgc aagaaacttg gacacttcaa atttgaatgc ccagaacaag 240  
 acaagtctca agacaagaag aaatactata agaccaagga aaagaaaggt ctcagagacc 300  
 cttgtaaaga tctagatgac acctcatcta atgaagaaga agccaacctt tgtctgatgg 360  
 cagatagtct ctgaagaatc taaatcanat caagaggatg aggtaactct taatgatcct 420  
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 ac 482

<210> 29821  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29821

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 ataccatcaa ttcgggttttg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180  
 tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240  
 ttcattaacc tctccaaatg ttgcatcaaa gcttgcatctt ggaattgcga aagccccact 300

ccatcattag gattagtagc tgacatctca nacaacaaaa tcanacgtaa caagacaatt 360  
 atagttgctg tttgaatacc tcacccactc aagtgtatca cacaattatg gctnttctct 420  
 aatga 425

<210> 29822  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29822

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 gcctgaatcg gacctccgag ttaaaagtta tgaccatttg aaattcccga gagcttccgt 180  
 tgttcaattt cgagtgtctc gatataattat gcgccagaat cagacctccg tgtgaaaagg 240  
 tatgaccatt tgaatttctc gagagcttca gttgttcaat ttcgagcgtc tcgatataatt 300  
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 ccattgttca atctctagcg tctcgatata ttatgcgcct gaatctgacc tccgtgtgaa 420  
 aaagtatgac catntgaact tctcgagagc tttccgttgt caatttcgag c 471

<210> 29823  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 29823

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 gtgacttgag acacgaatat gctaagagtt tttcagaaca aaaagggtctt attctcttat 180  
 agagcaaaat cgatttatcc tcttacggat cccttggcca aattacttgt gattcaataa 240  
 cgaattatctt gagggtctca attgttcaat ctatctcttt caagagagac ttcttctttt 300  
 cttcttcttc attctaaaaa gggactaaga gaccgatggg ctcttgttgt gaaagaattc 360  
 taaaca 366

<210> 29824  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 29824

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 gtggcggtttt ttgtaaaatc cccacgaaa aaccgccatg gccgccattt aacaacactg 180  
 ggacatgata ttcgattgtg aataagtga tgtgctaaca cttgatgtac attaattata 240  
 ttgcgagcta tgaattatac aataaccga ccagtgttat gcgcagtgtg aagagaaagt 300  
 gaagttccta ttaggaaccg gtgtaaatcg agcgattgt gtaaacaatgt ctgaacatga 360  
 gt 362

<210> 29825  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29825

agcttgacca atttctcgac ccaacctgtg catagtcggt cagtgagaac ctgtgatgta 60  
 cctaaacagg cgagctcctg gcagtcaaca gataaaagga acaaagacca caaagcaagg 120  
 aggcttgtgg tggctggcca gctgtgaatt ctgtgtgata tatgggttgt ggcctctggt 180  
 aatcgattac caagggtggg taatcgatta caaggcttaa aaatgaagac aggaggctaa 240  
 gatggtctct ggtaatcgat taccaagggg gtgtaatcga ttaccaggct tgaaaatgaa 300  
 gtcaggaagc taaggagacc tctggtaatc gattaccagt ctgtgtaatc gattacacag 360  
 aggaatgggt cactggtaat cgattaccag gtatgtgtaa tcgattacac agtgcatttt 420

<210> 29826  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 29826

atatttggtc ataataataa tgggaaaatt tgccaattta ttgaaaatat atggttacca 60  
 cataaaaatg gattttttta atattaattg gttaaaacta tgaaccacct taactattta 120

ttatcaaagt atctgggaaa ccttaactta atggtaaaag aagtcattct ttcattatat 180  
 attaacagga aaaaaaatcc acaggaaaaa aaaattcagt agtacataac ttgatctatt 240  
 tggcttcttg ggtggttctt cttaagcatg cccattggaa tggtcctaata tatatatcta 300  
 ctc 303

<210> 29827  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29827

agcttgaaat tgatacaacg gaagttctcg agaaattcaa atggtcataa cttatcaccc 60  
 ggaagtccga ttcaggcgca taatatatcg agacgccga aattgaacaa cgaatgctat 120  
 caagaaatta aaatggcat aacttgtcac atggaagttc gattcagatg catactatat 180  
 ggagacgctc gaaattgaac aacgaaagct cccgagaaat tctaattggc ataacttgtc 240  
 acacggaagt ccgattcacg cgcatactat atcgagacta tcgaaataga acaacggaag 300  
 ctctcgagaa attcaaattg tcataactta tcacacggaa gtccgattca ggcgcataat 360  
 atatcgagac ggtcgaaatt gaacaacana tgctctcaag aaatagaaat ggtcataact 420  
 tgtcacacgg aag 433

<210> 29828  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29828

actaagcttc tcgatataatt atgcgtctga atcggacttc cgtatgataa gttatgaaca 60  
 tttgaatttc tcgagagcat ccattgttta atttcaagtt tctcgatata ttatgcacct 120  
 gaatcagact tncgtttgaa aagttatgac catnttaatt tctcgagagc ttccattggt 180  
 caatttcgag cgtctcggtta tattatgcgc ctgaatcaga cttncgtatg aaaagttatg 240  
 accatttttaa tttctcgaga gcttncattg gttaatttca agcttctcga tatattatgc 300  
 acctgaatca gacttccgtt tgaaaagtta tgaccattnt gaattctcga gagcttccgt 360

tgggtcaattt cgagcgtctt gatataattat gcgcctgact cggacttncg tgtgataagt 420  
tatgaccatt tgaatntctc gagagcttcc gttgggtcaat ttcaagcttc tcgatataatt 480  
atgc 484

<210> 29829  
<211> 500  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29829

aggggncnng gtttgagcat tgaatgacgc tatggaacta cgggcgaatc agctcgtacc 60  
cgggatccnt agagtcgcct gcggcatgca agctgccgct gtangaatgg cgaaaccacg 120  
taaattaaag acccccattg aaatttggtt cgaaacagaa ccttggttcgt aaaatgtttt 180  
taaaagaaac cctatacaat aaatttgccc tctaagcaat tgcacatgca gcctttacag 240  
caatttcttg gacccggttg tacatctgat ggctgataat aaaatttaca aaatcaaaca 300  
catctacttg cttatctcta cgtacgtggt atatataata aaaaaaaatc cagtttttaa 360  
ttattattca taaaatacct taattttagt cattataatn tataanaaaa tatttntaaa 420  
ttgggttttaa gtgtgggtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 480  
gtgtgtgtgt gagtgagtgc 500

<210> 29830  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29830

ntataagtgc ggggtctggga gttaaaggtc aagtgttcgc gatatgtgaa gatgatgttc 60  
caagtacttc ggatttggtc cgaccatgct ctctgattt ccagctggga aattggcgag 120  
tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180  
ctctatagtt gggcctgggc tttagagttt tcattttggt aaggctttgt gtctttcgtt 240  
tttgaattta taatacaagg atctttcttc atctgggtct ggtctctacc cattctcatt 300  
catttgcata tctacttctt tctctaaaac ggcagattcg atgacgaagt ccccgaaagta 360

ctaatacctg ggacccgtct atcaacttcg agcaagaaat gagtcaaacg gaagat 416

<210> 29831  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 29831

taagcttcca attttttaag ttattcctca aaactgtcct acgcaaagtt cccaaagtcc 60  
tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtggttgaa aacaacaatt 120  
tagtgcccaa cttgctccac aaagtcctcc aaaaatgcaa atcatcaagc ctaggtatag 180  
gatgcctata tttaatggtg atgttattaa gggctctaca atcagaacac atgcgccatg 240  
tcccatcctt tttagggacc aaaatcactg ggacagcaca aggactcata ctatctctta 300  
cccaaccttt gctaattgagt tcatccactt gtctttgaat ctctttggtt tcttgtgaat 360  
tacttctata ggctggccta ttgggcaaag aagctctcgg aatgag 406

<210> 29832  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29832

ntgcgaaagg cttgtcgctg gagctgaccc atcaactgcc ctatctctnt cagtactgtg 60  
attcctanga tcttgacctt gacttgatag aacctctctt taagcgaaag cgtctgactc 120  
gatcccatgt ttactaaag tgaacaaaaa tccagtgcca atcanaactc tgacatctat 180  
catgggtgga atggatgaat acatgaagaa atgcatatga cacagatgca ttntatgaat 240  
acgggagcnc gggaaattgt ccccttctta gatacaacat tcgggcagca tcgcgcccga 300  
cgtatgcatt taagatagca acacggaccc tctgtcgggt tgacaaagtg aggggatcaa 360  
gacgcaatcc gtggatgatg cagatgcgaa aggcaaca cggngatgca tatagtacga 420  
caatatccac anatatagta catg 444

<210> 29833  
<211> 397  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 29833

agctntgctt gtatcttcaa tggagaatga agaagaagaa aatggcaacg tgagggagag 60  
 agagagctgt ctgaaaaagt gtggggctga gtgaagagag agaaaagctt tttggtttta 120  
 aataaaaggg ttttctcttt ttctattatt ttatttaagc aatgccacat gtctccattt 180  
 gagtggagca aaaaggcccc actttccctt tttgactgtg acccatactc agtcacaaaa 240  
 gtgaggaaaa tctgaccttt gaaacgctaa aatcctgcct cggtttgctg gctgtttctc 300  
 tggttccagt tctctgtgtt tctctgcgtc tgtcanggcc agttttcgaa agtacgcaat 360  
 atatatatat canaacgctc agaataaaac cccgagc 397

<210> 29834  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29834

nttcgattca ttctatgtac ccgtagtggg ccacattggg tttcgtgcaa ttttattttc 60  
 gntntgggta ctttntatac cccctgggtga cgtgcttaag tcattttact taagtcattt 120  
 ctcgcttaac ttaaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta 180  
 acttcgggta aaatgaattc cgaccgtttg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
 agaggtaaaa aaataatata ataataaaaa aaacatcttt tagtaaaata aagcggaaaa 300  
 tcaatcggac attntctctt tgggatttct cattcttaat cgaatcgatt aataactaaa 360  
 gtgaaact 368

<210> 29835  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <400> 29835

ttagcttatg acttttatta caagccttta tagagaatgt gggaaacaca aattaaataa 60  
 aaaatatata acgacttata aactagatgc atttatcata aaacatcgct atctaccatg 120

ttatatattta tataaaagagt attaaaaatg cacaattaac tattttaaacc ataagagtaa 180  
cgtaaatacag ttataaaaggt gttgacaatt taaaagctga tatatatcag acgaaaccta 240  
tttggtgtat gtatttgga aatttcattc ataatagttc tttgctaaat gcaatcatgt 300  
tagattgtaa agcaaaagga aagaaaaaca ttatttataa aaatatataa gagtcaagct 360  
aaaagacaag tagtgataga tacggaattt tgcaatgaat tacggtataa c 411

<210> 29836  
<211> 161  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29836

aagtgggcct ggttgctatt tgcactccca ttattactac atacaccctc atgccttttt 60  
ttggttatac tgatcagcca agttacggaa ccttactata ttctnnnnga tacttggtat 120  
ctttccgtaa tgggtacagaa ccttgcatat tacattatca t 161

<210> 29837  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29837

agcttacacc ttgtttattg tttttttcct tatcaagcca tttctaaactc tgaaaaatca 60  
aaaaatttgt ttaggctaag atgcacatag acaaagctaa caaacatata atctaagctc 120  
actatctttn tctctcaaga tatacaagat attttgagag cttttccagc ttagaaagat 180  
tttgaatgca aaaagaatga aggctattaa tattgcttag atcaaaattc ataactagag 240  
ctttttggta tttatagatc ttttcaacag gtaatcattg tgagtaaagc accttctatt 300  
tgtgggtgat ggggtcatcta tagcaaagt atgttgggag cattaaatgc gcgtccactc 360  
tgagatgata aatactatgt gtatctttct tgagcaaacac ttctctgga 409

<210> 29838  
<211> 397  
<212> DNA  
<213> Glycine max



<400> 29838

tcagactgaa tatgaaacag tgtctcatta agaagaaaact ctctgtaacc aaaatgccag 60  
ggaagattgg gtgagggttag ggagtaagaa ctcagctttc tttcatgctc aaactggtgc 120  
tagaagaaca agtaataaga ctcatgggtt attccttaat gcgtgtatgtt gttgcaataa 180  
ctgtgatcaa cttcaagctc atgttggtga gttcttcaag aggctgaata gtgttactga 240  
aggtaacatt atgcatgtat cccttcctct tgccccgatt ctttgtgggc aagactctat 300  
ctctttccca ctagatacaa aagagggtga tatatgctct gcagagcatg aaatcttatg 360  
agtctctcac gccagatggg tttagcctct cttctat 397

<210> 29839

<211> 403

<212> DNA

<213> Glycine max

<400> 29839

agcttcaaga tttatggcct catcaaacta cttgtttccc gagggaaatt ctataaatag 60  
aactcccatc tttaatggag tgggttacca ctactcgaaa actcgcatgc aaatctttat 120  
agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180  
aatagccgga agtgcaacga tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300  
atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360  
acatgaaggc acaacagatg ttaaaagatc tatgataaac acc 403

<210> 29840

<211> 213

<212> DNA

<213> Glycine max

<400> 29840

ggaatcggac ctcaagtgtga caagatatga ccattttaat atccttatag caaccgctgg 60  
acattatcca gtgtctctat atgtgatgcg ccttaatcta acatccgtgt gaaaagttat 120  
gagcatatgg atatctcaag agcttccgct gaacaatttc gagcctctcg acatattatg 180  
cgctgaatc ggacatccgt gtgagaagct atg 213

<210> 29841  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29841

agcttggctt atttcgtgaa gagatatcgc ttagcggata aacaatctaa aaatttttct 60  
 tagtcattnt ctgcttatct cttcactcat actttaaaaa ccctttttgt tcattaatac 120  
 acaagctgaa ataaatcaca atcatcaaca agatgtccta actacatgca agaaataaaa 180  
 ataaagatac agaagggaaa gaaaagctgg gttgcctccc agtaagcgct tctttaacgt 240  
 cactagcttg acgcatcatc ctattatcca ggatccatta aagttcccac ttcaagcacc 300  
 ttcttctcaa gtcttctttc ctccatcaca tgaactttaa aatagacatt ccagtcaggt 360  
 ggctctntat cttcatgaaa tagatcanag ctgattnttt gatcttctat tcccaattgc 420  
 aacatc 426

<210> 29842  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29842

tgagcttcat tcgcagatcc ctcatgtaag actacactcg atttagatag ttctcttagg 60  
 tttagactaa gtttaactga gtttcatctg tagatccctc atgtaagact agactcagct 120  
 caagtagctt actaaagttt agcctaattt agcctaagct tcgtctgcga tgggtgtagtt 180  
 tttaggaggg ggtggcttgc ggtgggtggcg gnggacagtt ttgatgatga ggggtgaagaa 240  
 gctgacgagg aaggcataga caacgagagt gccaagtgtc tagatgaaga octagcgact 300  
 aacaatgatg cagcccagat atatgtacct tttcttcttc tttntatggt ctcttttgcc 360  
 caagagccag ctatgttggg tctcatccaa agcacctcgg tccagctcat ggagattcgg 420  
 tggcggagtc tatgggtgtga atctcaagca ggctcccca cagatcccta ctgtgcatac 480  
 taatt 485

<210> 29843

<211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29843

tttagttatg ccatgntttt gcatatagag aagtgaagta gccgttgaag caatagaaat 60  
 ttcataagag aagaaagtag cggattccag gtatgcttaa aaaaagacta ttcaagttca 120  
 caagtttagt tgtttatctc cttaagattg ggctggctct cagtttattg aatggatttg 180  
 atttttgcaa gatcatacct cgaggaaagg gtagctaaaa gtgcatataa aaaatgccat 240  
 gttttttttt tctgttagtc tacaaccaac cacaagtcaa tcgaatgaat tcttcaagca 300  
 aagatatcag aaagactaag aaagagatat gcaatttaca acttggtgtc tactttcagg 360  
 aaatgttcgg agtagaacac ttacaataat acaacgtcgt gttctccaga gatg 414

<210> 29844  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29844

agaacagtac gttgcagggc gcgtcaacac tcaaaagtgc acgatgaccc taggntgtgt 60  
 ttgtgcgaaa aaaacgcgac gcagaggtag cggaggctcg acaatgtacc cttccttttg 120  
 caaaactcac ggtggtgcaa gggagattga gctcaatagg agatgccgac tgatagcaca 180  
 attttcagat agtgatttct aggtacgtgt gttcaattag cgtgcaaggg ggacatatat 240  
 gaaagcatgt taacgacggt gtatntgaaa acccgtcttt gagagtcaat atttctatga 300  
 tgggtgtttac aaatacaccg tctttgataa gtcccggcct aaccaacata gatgggtgta 360  
 gcaaaaaacg tcgttgtaga catcacgcgc catgcacatt 400

<210> 29845  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29845

agcttgagc tttcttacta catttcgctt atacaacagc ggggtgtataa gacattcaaa 60

gagggatttg aaccatcttt gtagccaacg tctttgagag ttaagacttt ctacgacagt 120  
 ctcaagaaaa accgtattag aaatgaatat cattctaaga tgatttttaa ctacaaaccc 180  
 tcttagaaga gtactcttct aagacaatta ttcagagaac cgacttaaag ggatattctt 240  
 ctgagacgga tgttatataa gaaccgtctt agaaggctgt agaagggtac ccttctaaaa 300  
 ctgtcttaga atgggaccct tttaagacga ntatctgaag aaccatctta gaatataagt 360  
 nttttaaaaa tataatgaca ataagatctt agagctttgt caatatacat tgtgttttta 420  
 taatgc 426

<210> 29846  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 29846  
 gctttggaga acattctgaa gttctagggg cctgatgcta ttgccctca ttttactaat 60  
 acacccttgc ttttttgctg atcttttccg aacgtacaga acttacaata cgaacgaagc 120  
 tttttccttt gaatgtacgg accttacgat acgaatctcc tttttgcctt cgaatgtaca 180  
 attttacgat gccactaaca ctcttt 206

<210> 29847  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29847  
 agcttgtgtt tttaatattc cattgtatgt acaaattatt gaaatatttg ccatttaatt 60  
 tcatttcaaa gcacattgca gaatttcaat gaaaagtac ttgttattac aaatagaaaa 120  
 gttatatattt gttaattac aattcaaaaa tattattcat ttttgaaaag taattacaaa 180  
 tatacctttt ttagaagtaa ctcaataaaa cttctcaaaa taatcagaaa tatatttttt 240  
 caattttttt ctcaaaatat caaatgaata cattaaatat tttaataata atattttctt 300  
 tttcaaatga aaaataactt ttcataaaat ataaattaa cagacggact tgtaattaga 360  
 gatattgtcc gcctttagtt taagcttcag agtcattaat ttatgttcat tatgttc 417

<210> 29848  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 29848

ccattgctac caccaacttt aggttctacg acttcaagct taagaagaat tgggtcagct 60  
 atcacttttg tcaagacatc attgacagaa tcaaagtaat gatcaccttt cacaaggttt 120  
 gttcttgaaa actttttaac acccaggaaa agaaaggcca ctaaattttt ggagctcaga 180  
 gaaccttgat tcttttagttt ctccgagttc taaccttttg ccaataagcg aggccaaaca 240  
 gcttcctaga agatatcatt acttttggtt ttgcacaaat tggatatccc cagtcaaagt 300  
 cttgattata tcaact 315

<210> 29849  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 29849

agcttaagct ccttggttgc tcccttctta gctcctcgga atttgtttcg gccccattct 60  
 tcctttcggg ccctctttgt ttctcgttcc aacgcttcgg cggtggccac attgatgtct 120  
 cttagtttgt cgcactctct tcagaccttg atggctgtcg tcttgaattt tttcttgacc 180  
 gcttggtgcc tttcaagttc cacctttaag gcttgacact ctctgctctc cttagggggt 240  
 tcagcctctt gctcacttga aacctttatc ttccggagcc aacctaacct ttgcatctga 300  
 gcctttattc agttgagata gccgtatgtc gcaacctacc gtattgcggg agggcgacgc 360  
 gtgactcgcg ggatgcgtg 379

<210> 29850  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29850

gaatcaacct tgtttggttg acattgtcaa caaatattga ccatgggtgag caagcaattt 60  
 caaacttctt aactcatoga acccttgctc agaaggcaat ccacgagact cctccatgct 120

tccatgacat aatcccatgc atttttttta cccacaaagg ttttatattt tgccttcaca 180  
 ttcttatcaa tgtgaaacca acacaacaag ttggttgact tggggaaaat agttttcatt 240  
 gcattcatca atgttgaatc tctatcagta acaataactt gagggattgc atcacgtctc 300  
 agaaaaatac ctcanaacca ttntagagcc canacaacat ttgttatacg ttttccttc 360  
 aaataggaaa atgcagctga aaatgtcatc ctaattggtg tcataccaac aatgtcaagt 420  
 aaaggaagct tgcattctggt tgttttggat gactat 456

<210> 29851  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29851

tggctggaga aactgataac attatgctta ctggtgaaag cttgagatat agtactgac 60  
 aattgtactc ccagaagaga ctcataaagg tctcccttaa ggcgcttggt tctgcaacat 120  
 acgcgcctgc aaactctacc agatctcaac attctcaaga cagttcatta cctgtaactc 180  
 taagattgat tnttcagaat gtagataagt ttggagggtga catttattat tcagctggta 240  
 ctggtatgag cgatataatc cacanagatc caacctgttt ttctgctctg catgaaat 298

<210> 29852  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29852

ctaagcttta gtactacaac tgaattttac tgagcctggg tattcatgta cgatgcttag 60  
 tggctgggtg aagatcctca gaaacacctt catatactgg aggaataatt aataaaccaa 120  
 ggattgcaca ttcttgtga ttccctttca agccaaaagg aattagaggt ggttctgcac 180  
 ctccacgagt ttgatctatt gcaggataaa tagagccatt attatttttc tgcagatcag 240  
 tttcttcagc ttgttgatct tctgtacac agcctgaaac agattgagta acaactaagt 300  
 caaacttcag aatangaatg atctgcaaat tatgaattgt aaaacagcac tatgcatgca 360  
 ngggattttt tgtcctcagt ggggtgtcaat cttaat 396

<210> 29853  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29853

agcttgtggt gtaattatac ataagctttt catccagcat tctattacgt aacaaggaat 60  
 ctttttataa tttaaagtaaa acatataatg ctaaattatt ttttagttaa gatatccaaa 120  
 tatacaaaaa atatattagt tattcaaaag taagtatgat atgattgtca ttttttgtct 180  
 ttttattagt ttatttttct catctaaaca caacattagt tttttttttt taaaagcccg 240  
 ttagttctat ttaggatgca aataacaaga tcagacaaat aaagtaagtt gaaggaagat 300  
 atagagagga tgggattgga atagtagaga aatntgaaa ggttgcaaga ttaatattat 360  
 atatttaana tagatggaca gatatcactt 390

<210> 29854  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29854

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 nacaaaatgc aaggctgcta ctaggtggat tgggtgttaa gtaagtcatt taaacaatgc 120  
 ttctaatttg tattttatta ttgtgtagac taatttgtac ttaacattga atatccaaat 180  
 ttcataatgt atctagtgtg atagacaaaa aggaatcact gaatgcaggt attacgttat 240  
 gcactggatg tcaactataa tcttagtaag tttcaagaat aattgtgaaa agataattgg 300  
 ttaattcaca catatnntca ttttttgtaa ttgatattat atattattaa cttatgtctt 360  
 attatatcat gcagtatttc aatgatgcta gaccattaan accagagaga ttgaaggcac 420  
 ttcgcatcta gtgggcaaac tact 444

<210> 29855  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 29855

agcttattcg ttgcccttg aattgattgc caagctctgt tcgttcatga atcctccgcc 60  
gaattgattg cctaacgctg ttcgtgcatc ctccatcatc aaatcttatt cggagcccca 120  
tgaattgatt gccgttcatg catcctcccc attgagtccg gagccatacg aattgactgc 180  
caagctctgt tcatgcatcc tttatcatca aatcttattc gaagcccat gaattgattg 240  
ccattcatgt atcctccacc attgagtctg gagcccgccg aattgattgc ctagtgttgt 300  
tcgtgcatcc tccaccatct tattcgtagc cccatgaatt gattgttggt cagcatcct 360  
ccaccattga gtccgaagcc ttacgaattg actgccgagc tctgttca 408

<210> 29856

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29856

ttataagtgc gggctctggga ttgaaagtc aagtggctgc gatatgtgaa gatgatgttc 60  
caagaactct ggatntgggc cgaccatgcc ctctgattt ccagctggga aattggcggg 120  
tggaggaacg ccccggcatt tacacaaca gcataatgta aacctttacg ggtttaaaag 180  
ctctatagtt gggcctaggc tttagagttt tcatttttgt aaggctttgt gtcttttgtc 240  
tttgaatnta taatacaaag atctttcttc atctgttcct ggtctctacc cattctcatt 300  
catttgcatg tntacttctt tntctgaaac ggcagatccg atgacgagtc ccncgaaggt 360  
actaatcct gggacccgtc tatcaa 386

<210> 29857

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29857

agcttgtctc ttagaggtcc aggaaggaca aggcggccga aggaactagt tccgccccgg 60  
agtacgacag tcaccgcttt atgagcggtg tacaccagca gcgcttcgaa gccatcaagg 120  
gatggtcgtt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgattttc 180



aggaggaaat atggcgccgg cggtgggcac cactgggttac tcctatggcc aagtttgatc 240  
cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgacc 300  
tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360  
tgggatatcc gatggtgttg ga 382

<210> 29858  
<211> 437  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29858

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ggtttgaaaa gtgaaaatga aaatggggta attntggagc aaactctcat ctcaaacaag 120  
tctataacat taatctaaac ttgctcaaac tagttntacg acgaanactt caccgaatca 180  
aaatttgacc cctcaacacc caatttacc tagaaatggc tcttgctttc actttgggtca 240  
ctcattttcc tcatttgctc agtccaagct tccccacaag tcctaaatga cattntaaac 300  
taggattaac tcaactttaga ctcccattta cactaacccc aaatttagct tctctaaccc 360  
tcanaatctc acacttttct acctacaaca ttgtcattct cacatttaac cctaagtaac 420  
tttccccttc atctcta 437

<210> 29859  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 29859

tatcatgcaa gcttgtgtta tgtctatagc accccacctg acgtcccaa ggtctcctga 60  
cccccgcgac atatctccag gtaccactct gtggtcaaca ataaaagcag gaagtttcac 120  
ccttcaacac ttctcatct caagcttgta ggattatggg gtaccatca catgtggtac 180  
taagtggcag acgggcatg gtgcacaaca tgttttccac atccacaatg cgcgcataaa 240  
cccaccatcc gctgttgccc acctgcaact gaactcacgt actcccacgt agcccatata 300  
ctcgtttctc tccacaccgg tccccatcaa tctcccaag ctttcacagc atccgatcag 360  
aacaacattc aaacagcaca agcta 385

<210> 29860  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29860

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 tgccattcct tggattatan ggttgaacca agctcatgct tttacaaaaa ggctcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
 acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgtcgaaaa tctaaattga ttcaacccca 300  
 tatcttgcgt aaaaattcgc aatacttcaa ctgtacatca ttgcgatgca tccatgcttt 360  
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa ctacaataaa tataataaaa 420  
 tgaacttaat ca 432

<210> 29861  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29861

agcttgcagc ttccataaac aaaaaggaga caagaaagct ntanaaaccc accaagaatt 60  
 cataatctac aacaccatca aaccatagc tntaaaatcc ttggttgaaa aaaaaaaaaa 120  
 aaagaagcaa tatttacaaa tgacaaagtc aaacatgcat ctaggcacat cacgtacacc 180  
 cattcaaaac atagaaacac tagtttttta aaaatattca caaccatgct ttccgtcacg 240  
 accgcaacgg tatcacaatt acaattatgg ctacatcggc cgtattaatc tgcaattntc 300  
 tataatgtca aaggatcacg atgaaatcgc gaccccgacc ataatttaga atcttagaaa 360  
 caatattgtt gcagtgacaa ataaagaatt gctgacagaa aagcaaaaa 409

<210> 29862  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29862

tagttgagct ttagtntgca tgagtctttc ttttgcagat aatgttattt aattctgctt 60  
tgtgatgcta cttgggtttt tggtgggtggg tgtttacttg actgtactaa gaagtgaaat 120  
tgagtatttc gtttttattg catgatacgt tttcttttca tcttggcatt tgggtgcattt 180  
gacttatttg tatattcatg atcatccatt aaattgataa tgtgtattct tgttggagat 240  
ttgtttttta agatggaaag atggtgtcgc aacatgccct tttgcggg 288

<210> 29863  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29863

ttggaaggta gtcatacctc acaaaatata tatatatata tatatatata tatatatata 60  
tatatatata tatacatata tatatatata tatatatata tatatatggt tagggagaaa 120  
gataccttgg atatgcatgt atgtagcaaa aaaaatttca caaaatatat atatgtatgt 180  
ttaggtagca agataccttg gatatgcatg tatatagcaa anatatctca caaaacatat 240  
atacgtatgt ttaggtagca agatacctgg gacacacatg tatatagcaa aatacctcac 300  
aaaaatatac gtatgttttag gtagaaaaat acctcatgag aaaaaagaga gcgagcaaga 360  
naagaataag aagaaaaaaa anatagagag agaaataata naaaaatata taanataata 420  
gagg 424

<210> 29864  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29864

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cccctacttt tgaggggcaa ctcccgctt acgacgacta tcccgggcaa gacgatgagg 120  
aaggagatac ccatcttggc cccctgctcc acctgaaaga tccgtcccca catgaactac 180

cccaacccaaa catagtccgc catgtcccgg cctcaccac acccgtaaaa gaatctgttc 240  
ccttcgcgga agataaggga aagattgagg cacttgaaga gaggttaaga gcagtcgagg 300  
gccttggcaa ttaccatttc tcggatttgg cggatntgtg tctcgtgccc aacatcgtca 360  
tccctcccaa gttcaaagta ccagactntg ataagtacaa agggacgaca tg 412

<210> 29865  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29865

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gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tggtgcccac 120  
ctccaactga gctcatgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180  
ccccatcaat cctcccaagc ttccccaaca tccaagtaac tcaacattca aacaacacaa 240  
accatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaaac accaaccaaa 300  
atcacagctt ttctcactta nagaccccag taacaattcc ttcgttccaa ttcgttaacc 360  
gttggtatga ctccaaaagt ttactggaag tctctagtac ataagcctac attntgaccg 420  
ttgggat 427

<210> 29866  
<211> 486  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29866

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actcagagac atgtgtcaac ctccacgctc aatcctgtta caggagcgtg gaaacctgac 120  
ccctagtagt tggccttccc aacaaacagg ttattttctaa cctaactaat attcaaatgt 180  
gtttgaatat tttatctatt ggcatatatt aaattatcta taatgccaca ttatctacaa 240  
gggatgatta tcttctacct ttatctataa ttcanatgtt tatctctaac attatctata 300  
aactcccagc tattatctat aagccgagaa ttatctacaa ggctacaata atccctaana 360

acatcctcgc tcaactaata taaatacagg ttccattgaa caactctaca cgacttgctc 420  
acacactcaa cacacaacaa caagcctgtg ttccctctctc tcgctcatac gaagctcatt 480  
acaaca 486

<210> 29867  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 29867

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acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggccataa 120  
cttttcactc ggatgtccga gtcagggtga tcacatatcg agacgctcga gattgaacga 180  
cgggagctct caagaaattc aaatgggtcat aacttttcac tcggagggtca aatccacgcg 240  
cctcacatat ccagacgctc gaaattgaac aacggaagct ctgcagagat tgacatgcta 300  
ataacttttg actcggatgg tcaattgatg cgcatacat atcgagacgc tccatattga 360  
acaaccgaag ct 372

<210> 29868  
<211> 538  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29868

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tggagcttct atggaagctg gatctttgag cttcgatgtt gtccttcaat ggtgattctt 120  
taccatggag atgcagcgga aggccaaggg aaagaggata agggaagcgc cattcactat 180  
ggaataagcc caggaagaat gagcttcacc acccagaatt ggcttggata aaaagcttga 240  
agaggatgct tttatggagg aaaagaaaga aagaaggag gagcacgaaa tttgaagaat 300  
aaaagaagga aagaagtgga acttttgagt ggatctcata anactttcat tcatcaaagt 360  
tacaacaagt ggtacacatg cttctattta tagactanag agcttccttg agacgctttc 420  
ttgagaaaac tctcttgaga agcttccttg agaaaacttc ctttggaaagc tagagggtag 480  
ctacacacac cctctcata acttagctca cctccttgag aagcttctta agagaatg 538

<210> 29869  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29869

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 atattaatca actTTTTTTaa agaatgaaat ttaattaaaa gagtcttata tttaagaatg 120  
 aacactatTTt tacacttcan atgtatcacc tatttttctaa aaattatata taataaaaaa 180  
 cttaaaaagc atgcatgcag ataatattct ttatgataag ttaatatogc atgattgtta 240  
 gatggcatca cTTTTTTTcac taaactcaga tgcacttgTc tcgtagatat taccatatgt 300  
 atcaatgagc aaacatgctt gatagagttg ttttgcggtat acctttcatg agtgggtgac 360  
 antgctaacg aaaacaaatg ggtcttgTtc cgattgacat gtacttccaa ccaatcggac 420  
 c 421

<210> 29870  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29870

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 gattaactta taaattgcta tggtagcatt aaacgaccaa gcatatacca caccatattt 120  
 ttaaactcttg attccttaata caaggttgat ttttttgtaa tttgctgtgc tcaagacaaa 180  
 atatctggta accatttgac tggcttatgg tgcatacttt gaagttagaa tttggaatga 240  
 agaggaggag cataatccgg ttattccttt agataaatcc cgccatgaaa ttcggagagt 300  
 gcatncattt gtagttctga tatgcacttg anagatngtg gatagcaagt aactac 357

<210> 29871  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29871

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aaaaaaaaatt gacttgccct aaatatgatg ttttatgagt tatttgtgaa acaatatagc 120  
atagtatttt tgtatgttag aaaactattt tatacaaaat attattaaag gataatattt 180  
tctcttaatg aagcttcttg aaattggtac tttgacatat ctttaagactt cagaaattga 240  
ttgttttttt gcaaaaaaag acaatcaatt aagtatcatt attcaactct ctttctagt 300  
acattttgat ccactttatt tgtgtgtgtg tgtgttgcan aatttaattgt gtattaaatt 360  
aatttcatat tcaatttaat ttttcattaa ataaataaat taaagt 406

<210> 29872

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29872

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tccttcttta cttttattgc acttgtccaa attttattga ttgctttgat tgttcttgat 180  
cttatgattg tgctacattg aggacaatgt gttgtttaag tgtgaggggg gagaagattg 240  
ttctttaatt ctgttgggta ttctaagttt aatttattag gttctctagt ttaagttttt 300  
taggttctac gttaactttg ttattttggt tntatgtttg tgtacaacat tgcattgtcc 360  
tctttgaatn ttggttatgt agaggtaatg tgtaattggt tttgaat 407

<210> 29873

<211> 374

<212> DNA

<213> Glycine max

<400> 29873

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taacacatca tgtgtcattt atgcgaccct atggtttgct tgatattgct tctgtttcac 120  
tagctaattc attgactctc ttcccataca ttgatgaaat atttgagaag ctggactata 180  
taggcataaa ctactatggg caggtttgct ttattaacct tgagagtgca ctgtgcatga 240

tatctgacat actcacatga caattctcac atttatttta agaagtgggt tcaggtgcaa 300  
gcttgaagtt ggtggaaaat agtgagtaca gtgagtctgg tcatggggta taccctgatg 360  
acttatacca catg 374

<210> 29874  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 29874

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tatcaaagaa taaatatttt cacaataata gggatagtat ggataataca aagataaaaa 120  
ctgattgtcc actgagaatg aaaagactat gtaatgaaga atagagtgat tgtctagtga 180  
caaacaaaag ggtcttaaaa caatttttca aataagtact tgggtgtaaag tgatgttaga 240  
aaatgtaata agaatactcg ataaaacaat atggagtga gtaaaaacac ttggtttata 300  
ctggtttgct caacctaagc tacatccagt tctactttac tcaccagtaa agggttccac 360  
taatcaaaaa ctgattacaa caagtattct aacctgtcac ttcttgcttt acaatt 416

<210> 29875  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29875

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aattcgtgtg cttaaaaaac attttaatac atatgactga gaattgttaa aacttgcagc 120  
taacattcta ttttactagt attataacgg agtctaattg atgtgacctc cttaggtcca 180  
gtacgggtgtg taagttttta acggtcattg gatacagtgt taaaaaaatt aaccatagag 240  
attttgaggg ataggggtgt cataaagtat tgaataacaa ttgtcagcgg caccgggttt 300  
taaaaatttt gggctctataa aaaatactaa ttaagaattt tttatatnta agtattttaa 360  
attagacaca tgatataata tgatcaaaaa atatatacat tctatttcat 410

<210> 29876



<211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29876

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 tacaacaagc ggcagattgc tttcaagctg catatgaact gaagctttca gctccagtgc 120  
 aaaaatttga gtgaccgaga ccttgggagt actggtaagt ttttgtgggt gagttcaacc 180  
 aagagcatta tacaaaaaac catgagcagc aactgatgga aaagaaaacg tacccatggt 240  
 taatatttgg tgagaaacct atatagtagt tataatctagc tacttattta tagatttact 300  
 tcattatgtt ccaatggaat gtccttcaca tttgacacgg aaggacagaa gtttggcttc 360  
 ccaagtggta tagaattctt tataacataa t 391

<210> 29877  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29877

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 tgatcaacaa attaaaaaat atatattctt ataatttcat gatcatttgt ccaaggttat 120  
 tactgaataa agtggattat tagatctagt aatattctga ttntacactt acgcatttca 180  
 taattaactt tgcttatagg ttactggaag ggctttgcag gactcagtac aaatagtgac 240  
 taagttttct gagatggaag agacatatc ttctcttggg tctcttacgt aatctatagg 300  
 ttaagctttt tgaaatatat ttocattag aactcgtatt ttctcttact ttcagcatct 360  
 gtatactaaa ctatattctg cataatat 388

<210> 29878  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29878

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aaacaaagac agtctcattc tcatagtact tgggagtcac acggtcgggtt ctcttctctg 120  
tcactttggc taccactaa gaaaaatcga tcctttcttc tcttcatac gcttctttct 180  
cttctcttca ttcatttcaa tttgtggtgt tagtgaaata ataatgaagg ggtagttgaa 240  
cattcaaaca acccatgccc tcatttttat gtgtgggtat ggtctcatta tcttcaacaa 300  
atacatagta caattactac aatgctgtat ctgcttctgc gtggntctta ctcaatttct 360  
tctctttctt cccttcttcc tcgatctcaa tcttcccaac t 401

<210> 29879  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 29879

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aacatattta gaaaaccaga accccacaat tcatccctgg taatgtagtt atttagccct 120  
gcttctatca agttctacag caacagtgc tttcccaatg ctaaagtcac ctaacaatac 180  
acacaaatgg gtgatcagac caagagcatg caagaattaa gcattgaaca cacaaaacac 240  
aattaattag atattaaagc taattacatc aattgttctt tagaaatccc caactagggg 300  
gtttagccag ccatacaaag aaaccctaac acaaatgaga tagagagtac aaaataattg 360  
gtgcttacac aagaaaggtg atccctctc ctcttttaag caccttacia tcac 414

<210> 29880  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29880

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ggataaattt taaagtttgt tcaaccgaaa tttaaaataa aaacagaggg ttgagggggc 120  
ccaaattgaa agcaaaaata aaaaaggatc acaattcacg aagtagttaa aacttgaaga 180  
gaataccata aaattaatta tgcaagttgt ccactagccc atcttgtcca atcaaataaa 240  
cctaaacttt cctcatggga ggtgccatgt gagggctcta tctctccata ntttattaat 300

atcatattca aaccacattc tttgttagta atctttcatt tcnngttatt agtcaaactt 360  
aacttccttt tctttcatta cccctcagat taatacgcca cttatttcat tctcanatat 420  
ccgcttcaaa ataatagtat atta 444

<210> 29881  
<211> 379  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29881

agcttgtttt gttgaaccac ctaattactt angattgaag gtgtttggat cactatcctt 60  
cgctcatgtt aaacaaggaa agctggatgc aagggttgca aagtgtgtgt tcattggcta 120  
tcctaaagaa gttaaagggt acaagctatg gaaattgaaa cctggtgaga caagatgcat 180  
cattagtagg gatgtaacct ttgatgagag cagaatggca atgctaagca aggagctgaa 240  
ggataacagc tcaagtagtg agagtaccaa atttgacgtg gagcattcta agatttcaga 300  
tcatggcagt ggagatgcta ttgatcacac tgattaagca gaaactggag ataatgaaga 360  
gctggctact cagcatgac 379

<210> 29882  
<211> 405  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29882

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ctcgtgtccg ggctactaga gtcggtgtca tgaccaaaca atactttgga ctggcttcaa 120  
aaagctctca cacatctact tccatggctt ttgaagacct ggagcagctg acaaaaaatc 180  
agggactagt tggaggagtc aatcactaaa aaatgactcg acaactaatg ctttcattca 240  
accaaatagca atcctagatg caatcataga tacaattata gggactcgta ccacctcctg 300  
agcctgaggt tagtccttct gctgcctgtg tcgatccctc gaggaaggac ccaaacactg 360  
gtgcatcaga taggcgcggg ttgtatgtca atgagaattc tcctt 405

<210> 29883

<211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29883

```
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tcctaatect atccctatgc tcaggtttcc acatcaccaa cctctatatg aagagaaaaa 180
aatgttggtg taggagacac tgaatatatt tcaatgttgg tataggaaac actgaaaatt 240
ntatggcaac ttgagccatg aaattgcaa aagaagcatg tggataaga aatatagaag 300
cctcacatct aanagtgcaa attanataaa attntaattg aaaaactaaa tctatgtttt 360
tggtacataa cacttaattc acatg 385
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<210> 29884  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29884

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tgggtatcat ctggtgggtc agaaatggnt tctatacatt gactttacac caagaaattc 60
ttcaagatct caccaggtg ttctacagtc tgaacttgag ttaacctata tcattttgtg 120
tgagcgggtg acctatgcat tatgtgggtg cttcattatt ttgaattgct ttctgcatgc 180
caataggggt atacatttca ttgtatctga gaccaatggt ttattctgat aactaaggat 240
tttaaaacaa atgtgtccaa cttcttcact tcgattaatg gcaagtgaat attggaactt 300
tcccaatttt atttataagg gtttgtatag aaagaatcct ttcacttgct ggagatntga 360
caaactgctt gtaactggaa tcagcatcgt atcttgtaat gccataacct ctgtgaatgg 420
tatnggatta tataccgtat ttaat 445
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<210> 29885  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29885

agcttcttct atggattgaa aacttgctta aatttgatga gtatcaagca cttaatatca 60  
attgtcgtat aaagattatg tcacaatgga aatatttttc tccttttcca aggcattgaat 120  
gattttcaca atttagttgg aaacatctaa attttttgaa ttgaagataa ttcgttntaa 180  
aattttccta actcaatatt gtttgtaagg aattttatat agttgattat cttgatggac 240  
ttatggacac tgacagtggg atacgaaaca ttgtttcaat gtttgaaatt gctaatattc 300  
tatccattnt ttaagtacat catcaatctg aattctcaat taatgtgatg ctnggtattc 360  
aactnttatt tatcataatt nttttcatgc taagt 395

<210> 29886  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29886

tggtgctgat gccgcacggn ctgatgatct cattcaatgt atgtgtttca tacgtcaagt 60  
tccttggtt gtattgtatg attcagggtgc gactcattca tttattttctc gtgtctgtgt 120  
tgaaaaactt gccttgccctg tgtcttcctt gaaattttac ttgattgtga atacacctgc 180  
tagtgggtct gttntaactt ctgatgtgtg tttgcaatgt catgtcttaa tttctgatag 240  
acaatttctt attgacttag ttgttctacc tttgagtcag attgatgtta ttcttggtat 300  
ggactgggta tcttccaatc atgtcttatt aaattgtnt gagaaatctg ttggctttct 360  
tgagtctggt gtgagtgaat gtgatatgt 389

<210> 29887  
<211> 210  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29887

tagcgcatga acagagatgc gcttaacgag aggccttggtc ttagcgaaag gactatntgt 60  
cagaataaaa atttctaagt tatttttcag tcctttttcc aagaaaatga aacccttatg 120  
ttaaacattc aaagattggc tgatatactc ctatgtacag atcatacagc aagttccaaa 180  
tgattaaatg catgaaatac aaagataaca 210

<210> 29888  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29888

tctggtgact gggaagcacg ttattctgtt gttttccaga tcggttcctt cgccatgtat 60  
 gtgcatactt gtattatatt tgttggtctg gttggtgttt gtattttgtt ttgtgcagaa 120  
 gataaaaaaa agaagaagta gagatgagag tcgtcattgc gaaaagggtta ggacggacga 180  
 aatctgtgtc ctatctttgc tttcctctta tctccgatga gaggtaagta aagaggggca 240  
 actgtcatat cctaatttcg tccggggatt attacttgat gacatgcaat aaatgaagtc 300  
 ccgagacgtc tcagaaatca aaaggaagca ggcttgctgt tttcgtgaaa ttcggtaatg 360  
 tggcggaagt cgaacatatg tgtttctgca caatccgtaa gtttcctgta cttcttcgta 420  
 aggtaaaaaa ggagtaaata cataatccgt atgtat 456

<210> 29889  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29889

nnnnnctct gagcctttat gatgcgctga aacacctcgn acccgggatc ctcagagtcg 60  
 acctgcagca tgcaagctnn gaaaattttt gnnnnncttc ntctcgctaa gcccatctac 120  
 tggcttaacg aaccttcgcg ttaaccatt ctgcttgctt aacgagcctt ccggttaagcg 180  
 caacactcat gggcctaaac gcgaggggaag actcttgga gaagatgatc tgtacagggt 240  
 cgctaagcgc accacttcat ctactaagc gcaccgcttc agttcatccg ctaagcgaga 300  
 aaggcacgcg ctaagcccga atcactaatc tgcgctaagt agtccataag tgccgctagc 360  
 gcacgagcac ngaacaggtc acctatttaa gccctanac agattcagag aaggagtggg 420  
 ctgggatcan nagcttgcat tctatggttc tagaagagaa aggtccagtc taagagtttg 480  
 agagattgct ggtgan 496

<210> 29890

<211> 454  
 <212> DNA  
 <213> Glycine max

<400> 29890

tatgttgatg ctatttctga cttaaaaata tttagaggtg agtcttccag ttttgcaagt 60  
 taaggaatth ttttagaatt atttaattcg agtaataatt tttttgtag aatgaagtat 120  
 caatgtctag ttttaagttta atagtgtctag caaatagatt tatttatttt tatcattcac 180  
 aaaatattta attgaagtaa taattgtttt tttagataaa aaattaatat gtgaagttta 240  
 agcgtattaa tttttgtaat taggtttttt actttgaagt ttttttaatt atgtttaatt 300  
 atttacaagc cttacaaata tttacctgat tcccttctag ttttttgaag ttagaatgaa 360  
 atttgaatct atattttaag ttaaagttag tagatgaagc aaccaaatac agttatttat 420  
 ttaaaaacta ctcttggtat gattaattat tttt 454

<210> 29891  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29891

tgcacccggg atccttaagt caccgoggct gcagcttagc attgatngnn ccatgcttct 60  
 catttgatgc tccccttatt tctaacaatc tccccctttt ggctttgatg atgccaacct 120  
 ttaactatga cattgagtgc attggagagt attgagatgg attggaaaca tgatcttatt 180  
 aacacttaat aaaggattaa ttcattcatga ttgatgcaac cctaccccccc aagggcattg 240  
 gatagaagac tccaagaaga ttgngccaga caggcaagag aaggccctag gggtcttatg 300  
 agcttttaggg tagaatttgg gcccatgggc taagtatgag cccacttatt tttgtacata 360  
 ttagattang atttcattat ttttgggcct tgtatttang gttctataat 410

<210> 29892  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29892

ctttgatgat tcattacttg tcttttcgag gagcacacaa tttctggata acttgtcttc 60  
atgatttgtc tttatcttca tagttctatt atttcaatct tgtoactgat ctattgtggg 120  
taaactcgtc gggtcgcccac agtgggtttcc atcacaatac tcattgcgca ttaactcgtt 180  
gcccttaaag ggtcttagca ttaacttggt acccttaaag ggtcttatag tcgtgtgatt 240  
gtacaattca tagctcataa ctcaatgcac acaacatctt aatgcacaca tgtatattgc 300  
aagtcaatac atactcaatt tatcacatat attcgggtctc aatcacaatg gaattgtata 360  
ttctcaaagt agcatgttat cacacctcat gaatcataca cactntacct atgaactatg 420  
aaatacacac aactactcaa ttgtttcaaa gtcatttacc tcg 463

<210> 29893  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29893

agctntgggg ctgaanaach attttacagc accaaggggc nagnttaggc tctcttctct 60  
cttgtctcta ttctctctcc tctctctctc ctctctttgt cgttatagtt ttagagtgtc 120  
actctctttt ccgttttagt cacttttcgt tgtagcaata aaatttcgtt cttcaatcta 180  
taatttcgtt ctctattgat taatggaagg ctaagtctcc aacgttggtt tctcttgagg 240  
atcaagcaca attctctctg aggttctatt attactatta aattctgatc cagttttcct 300  
cttcactaat tactctgtat ttgttgctat taattcatgc atgcttagtg cttgattaat 360  
tgtctctgtg cttcaattac gttcatgctt aatgatcatt tatgattaat tg 412

<210> 29894  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 29894

tatcggcctg acaaacccaa acagcgatct aaagcctcag attgataagt aactgttact 60  
actaaagaca taaatcttaa tggtactact aaagccatag atcattgatg tcatttcttt 120  
ctatgatcaa taatagttca ctcacataaa aaatttcaga gggcaatcca accagacaag 180  
gagccatgca aaacaaggta aaagtgtcgt gcatttcagt tgtgaaaaga acagaagcag 240



cataacatag aaagaaggcc agcaacacca caacaggacc tcacaatcag actagacaga 300  
 caatgggatc tctttgatct agagatgcc aagaagaca ggttccagca atacaagtgt 360  
 tatcaatggc atatcacgca aaatgacaaa ccaataaccc agtatatcat ataacagata 420  
 gtgttgcaag catatagcag aagtcttatt cacata 456

<210> 29895  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29895

agctngaaac ttgatgggaa ttttcaaattg tnnngaattgag aaattgctga actagaggaa 60  
 caactcaagg ttttgaagtg tgtgaacttg gaggaagctg atcatgagaa taaaagaaag 120  
 atagaaatag aagagataga agaaaaattg gaggacatga tttttgatat gtccgtaaaa 180  
 gatgatgaaa atcaagcttt gaagaagaag gtacaagaag ctaaaatcga gctagaagat 240  
 gctaggcaac aaattattaa ggtaaatggt ctgttctgag aaaatcctta ttctaattcct 300  
 tataactaagg agacactnta gttcataatt ntattaaacc ttttactnta atttttcaac 360  
 ttcacaaaaa gtaattcatt ttttactttt actttgtatc ataaagggtta ttttaagtga 420  
 taatat 426

<210> 29896  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29896

ctaagcttcg agagaaanac ctaccgtgag agcaagaatg agagtgcac ctataccaac 60  
 agtgagagtg tgaccgatag tgatagtgtt gatactgggtt tcagtgccgc gagagtgata 120  
 ccgatagcga gagtgcact aaaacctaga cgatcatgag cgagactgac gacaatgggtt 180  
 tcagcgtcac aagagtgaga gtgagagtga aagtgacaaa gggtttgagg ttgccagaag 240  
 cgtgagggag atgagtgaat tgccaaaagc acgaataata ttataaatag gacaatacaa 300  
 tgtcagtttt tcttttaaaa aatgatatta gcatgagttg gttaatatgtt gtttttgtaa 360

aaatcgatgt taaagaagtc acgagaacat cgatctttga acaactgatg ttaacaaact 420  
aacgttatc 429

<210> 29897  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29897

aaaaactgtg agctctgtga accgtttgaa tacaggcacc cgggaccta ccagtgcct 60  
gcagcatgcn ctgaggcatg ttagcgncct actcgctcgc ccaggcgagc tcagctgtcc 120  
cagccgagca aggttgtttc ctccagaagc aacagccttc tggacgaatg atccggaacg 180  
cccaggcggc cacattgcta tatgtacccc cttattacta aatgcacccc tcctagtttt 240  
ttgggtaatt cttttccgta acgttacgaa actctacgaa tatcgagcga tgcttatctc 300  
cttcgcgaag ttacgaatcc ttacggatta tgtatttact ctntattagt attcgaagac 360  
gttacggana ctcacgaatt gcgcaaaaca cctcttttcg atttctgcac attacggaat 420  
tcacggatcg cgcaagcctg catactttat gattctgaga cgtctcgtga ctacatttat 480  
tgtgcaacaa t 491

<210> 29898  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29898

caacatgcga acatctcaag ctatcacagc caagcaaac agagcaaatg cagaaaactc 60  
tgctcaacac atcaaccaa atcacagggt ttctcactta aagaccacag taaaaattcc 120  
ttcgatccaa ttcgttaacc gttggatcga ctccaaaatt ttactggaag tctatagtgc 180  
ataagcctac attttgaccg ttgggatcta ctagcagaca ttgagaactc attctgcact 240  
agactttcca cagccaacca cacacaagca ttnttctgca cttgtgcaaa attctgctgc 300  
acaatttcac agcatatatt ctgcataagt gcagatttcg aatatcacac ttgctctcat 360  
ccaatcttgc ccaaataat tcctacaagt cccatatcat gtatcaatca tgtctaaacc 420

aaattcaag

429

<210> 29899  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29899

ntgcatgtct agggtttcta gagagagaaa ggtgggagtt ctagagagtt ttgagagatt 60  
ttgttgtgtg aagatctgca gagaccagag cttgaaacaa gagccggttt gagagcttga 120  
gatgagtttg tgagtgattg cgagatccta gaggtgaagg agacatcttc accacttgta 180  
tatgtgcaat ctttcatctt gttcttctct ttgttcttaa gaaggctttc tggatatgaa 240  
agctaaatcc tttgtggatc ttccctggag gtacctgatg taaatatatt tctatctatc 300  
taatgatgta ttgtgtgttc tctgtgctat ctgcttttca ttccagtatg cctttacctt 360  
gatcacgtag atgcatgctn tgttagggtc attcaatact ggaaactggt ctgacgctaa 420  
agtccttgat agtgcacggc tg 442

<210> 29900  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 29900

ttctgtgtct tctctaaata acgatctact cttgtagacc ccttctattg gatctgtgtt 60  
aacttctgat gtgtgtttga attgtcctgt ggagatttct gggagaatat tcttaataga 120  
tctgatcggc ctttcttaga gtcacattga cgttattctt ggtatggact ggttatcttg 180  
caaccatgtc ttgttgaacc gtttagatat aagagtgggtg tttgacgatt ctggagttag 240  
taaagatatg atgtttatct ctaccaatct gtgacatcgt ttaccgaaga tgcttaagta 300  
tacatgatct tgtctagcct ggaaaagata caaagggttc tatgttgacc ctctgatgt 360  
caacactatc tgaagtgttc ttgaggaata ttactctcc ac 402

<210> 29901  
<211> 363  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29901

cnggcacann aggaggngaa tgtcaaaggn caaaggcacc gcgaaccgac naccaaaaca 60  
ttggaagacg aaacagcaca gagaaaagaa ggggaacgaa ggaaacacaa ntcgaaaaca 120  
gccacaaaac aacggtgcta ctggaaataa tatcccactc tattgtccaa cggaacgccc 180  
agagggcatc gttgcttaaa attgacgatc aagcacaata atagttgacg ttcgatcagt 240  
aatattatat tctgagaact tgtgatgtta acaattactc tggatgatg tagtcacaat 300  
gaagcaaagg ccgataacca catgacttaa ttacgacccg ctatgatagc aagataccga 360  
gtc 363

<210> 29902

<211> 444

<212> DNA

<213> Glycine max

<400> 29902

tccgcagcta aagtattact caaaagataa agatccaaaa tcaaatcaat cttataaata 60  
aaataaagaa tcaaaattaa aaataaaata aaaaatcaaa agtataatct atcctaaatt 120  
atattgtaga tttcgaataa atatttttaa ttttaataa ataacgataa aagaaggtaa 180  
actaaaaaat aatttaagat gattagaaga tcaatttttt tactaattgt gagggtagtc 240  
taataccttg attttcaata tttcacgttt aacttccttg atcacggtta taattgaaat 300  
tgtcatttaa aacataaaga ttaattaaat gaactttatg tcaatctcta agcaagtttc 360  
aataatttat tagattgaaa cttagaccgt actgtgaatc aataaatgct ttcacaatat 420  
gtgctgtgag ccgacaatca aata 444

<210> 29903

<211> 427

<212> DNA

<213> Glycine max

<400> 29903

tgaacgtaaa ctgctcgaga aaatacccaa cttttaagtg aaatgatgga agaaagagaa 60  
agatattggg aaaaaatgga aaaagagagg agaagattga gaaagagaat gagaaagatg 120

aaagagtggg acgacctcga tggaaagtga ttggcgaaga agagaagtgg tggctctggc 180  
 ggtgcagcga gcaagaggtg aaacagtgcc gttcgggggtg ggattagtat agaaatgagg 240  
 aagtgtgtat agaggggttc tagaacggtc gaggacatgg atacggtcct aagagcaata 300  
 acaccactct caaatgcgga agcataatat acaggggtta tgaaaatatc ataaacaccc 360  
 ctgtttatac cgaatgtcaa ttttatatgt tgtccaattt ataactgaac cgcctattat 420  
 tgcttat 427

<210> 29904  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 29904

gatggtgcaa catatttctt tggcctaata ggaactccaa tattttttaca gcttctaattg 60  
 ttatgattgg tttggccaca ccttccacat gtaaactcag ccaatttcct ctttagctta 120  
 tgtcctgtga cattgtcctc atctacagat ctccttctat gattctttgg ccttactcta 180  
 tggacctttt tatgtggtgg aacaggggtg gtatactgtg tc 222

<210> 29905  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29905

tgttctanat atacattgat gtttgtatgg gaggatgtta catgccatta ttgctttaag 60  
 agtaatgtcc cactaaaact aactttccaa atgtttgcct tcgcaggaat ggcaccgagg 120  
 aagcttgctt catagaggtc caggaaagac aaggcgccg aaggaactag ttccgccccg 180  
 gagtacgaca gtcaccgctt taggagcggt gtacaccagc agcgtttcga agccatcaag 240  
 ggatggtcgt ttctccgaga gcgacgcgtc cagctcangg aggacgagta tactgatttc 300  
 caggaggaaa tagggcgccg gcggtgggca cactgggtta ctcccatggc caagtttgat 360  
 ccagacatag tccttgagtt ntacgccaat gcttggccaa cagaggaagg cgtgcgtgac 420  
 atgagatcct cggttagggg t 441

<210> 29906  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29906

agcttatcga tactgaancn canncnnnna acacattgtc tttttcgtac taaaccaaaa 60  
 cccaattcgc taacttttta ccaaaatatt aatttattaa ttaggagggg catacaagga 120  
 aatatatttt caaaacctat ttaggaataa atgtaaataa aatacaaaat caaatctatt 180  
 gtccgaaggg agcgccgttg ggttttctat cctanacct accattttcc cttttcataa 240  
 ttctcactct ccgcaatatt attttccttc aaagtcattg gtaagttaaa gacatttttt 300  
 ttttataatt ctttgcccat aaaaaanaaa taattccatt tatcgaanag tgaatattca 360  
 atgtaaacca caaccttaat tgaacattat attcaagatc t 401

<210> 29907  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29907

nggttaacaa tatcctttat ataataaaa tgttaattaa tatcttanaa atactagtta 60  
 atgaacttaa agttgaaata cggaagataa acaattacaa tgttcatatt ttttatgatt 120  
 tatgcattta atattcttat tcttttaatt ccttaactaa tatctagaag cgctaattaa 180  
 caagaaccat ataagtaaac caatgagtaa ctaacaatcc cgttataaaa aaaaaggtta 240  
 tcatcatgtc ttttttggac taatcatatc atcctatgat ttcattcgac aaataataaa 300  
 gttaaaaatg aattgaaatt aaaatacata ggaccgaaaa ggagttatga gttaatatat 360  
 ttaattaaga cacatatctg ttaacaaaat tgatacagca tgaatgaata atgcgtctca 420  
 gcgaacaaaa tcttgatggt t 441

<210> 29908  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29908

agctntgagc ctaaactctg actctccata ttccttngac ccaggtgaga atgccaatcc 60  
ttaccctcgg aagcaaaaag aatggaggga anattccaat caaagaanaa gagaaggaaa 120  
atttccaatg aaagcaaaaa agaaatgaag gaaaattccc caatcaaaga gtgggagaaa 180  
gcaaaaaaaaa ggaaaagaag gaaaattccc caatcaaaga gtgggagaaa gcanaaagaa 240  
nagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaaggagaaa gaagaagaaa 300  
gaaagctctg a 311

<210> 29909  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 29909

tctagccaaa gaaagaggga gagaaagaga gaggggggag cacgagattg aaggaagaaa 60  
aaggagagaga agttgaactt tgagtttgtt ctcacaagac tctcattcat caaagttaca 120  
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180  
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240  
acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta 300  
gctacacaca cccatctaaa aactaagctc acctccttga caaaatacat gaaaaaacia 360  
aaaaaaagtc cctactacaa agactactca aaatgccctg aaatacaagg ctaaaatact 420  
atactactag aatggtcaaa atacaaggcc caaaag 456

<210> 29910  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29910

agctnanatt atcacancan cgttttgaat aatganaagn nactgtgtga gttgatttct 60  
tttgcggtat ccaatataat aaaaatatgt gattatatta caaatcaat tcgaatccaa 120  
aaattggtgt taatattttt atttgaacct gtgcgttgca tgggttggtg gactagtatt 180

tgtaacgact gggatcatat atagtttata gttaagtagg cacacagtga anatctttat 240  
aacgaagccg ctgtaaacgt tacaagcgga gagccgtatc aattcgcttt tcatatgtaa 300  
tgtgtnaagc aggcattgca atattactga tttctttgca gctagagttt aatttatatt 360  
atgttatcct atgcattaat aatatgatac gatgaaaaaa ttttttctta ttaatat 417

<210> 29911  
<211> 456  
<212> DNA  
<213> Glycine max

<400> 29911

gctaataatt attgctcatt ctttacagat attgaaaata acatctctaa gattcttgag 60  
cttattaaga acaaaagcca tagcaaagaa gatgatgaga accacaaaca ttctacaagt 120  
gggacagaac ttgttgggtt aatagaggat ttatacaaga agcaacaatc actttatgcc 180  
atatatgatt gtgtcattga agagtttgag aaagtagttt ctcgcaaaag aatcaagaag 240  
gttgcaatgt cttcctctga ctcggactct gaatactttt ccccagagga agtagatggc 300  
attaagagaa agtcagataa agaatattac agtgtatctt atcttggcac ccttaagcaa 360  
gaatctgata gaggtgattg tacagatgag gttcctaaga ttgaagcaac aaagtttgag 420  
gaacaattaa cttcactagc gaaagagggt gagagt 456

<210> 29912  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29912

agctttagc attatgcana ccattantaa ctttttagctc gganatccga nggagnnccc 60  
gaatatatca agaccctcaa aatgaataca aaagctctta acaaataaaa cgaacataaa 120  
ctttctacac ggatgtccga ttgggcaacg taacatatcg actcgctcga aactgaatac 180  
caaagctgag agcaaattca aacaacaatg actttttacct eggatatccc attgagtccc 240  
ataatatatc gagacgttcg aaattgaata gagaagctgt gagacaattc taacgacaat 300  
aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgttc gaaatttata 360  
acggaagctc gtagcaaatt caaacgacaa taactttgaa cttgga 406



<210> 29913  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29913

tgagatgagg aagtgttgaa gggtgaaact tcccgcctttt attcgttgac cacagagtgg 60  
 tacctggaga tatgtcgtgg gggtcaggag accttgnnga cgtcatgtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccgaggca tagtcgggtca gtgagaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaataga taaaaggaac aaagaccaca 240  
 aagcaaggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tgtgggttat 300  
 ggctctggc aatcgattac caagggtggg taatcgatta aaaggctaaa aaatgaagac 360  
 aggaggctaa gatggctctt ggtaatcgat taccacggtg tgtaatcaat taccatgctt 420  
 gataacgatg tcaggaagcc atgatggctt ctggtaat 458

<210> 29914  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29914

agctnngccn ctcagnngnn agttgggtatg ttgacncccn naantngggg angaagagtg 60  
 ggcacactan aagaatctaa aacttcaaaa cctggagagt cgatcatcat aaccacatcg 120  
 agtagttgaa actcactcga aaagaaagtg agatttaaaa ataaatgaat tcaaattacg 180  
 gtgatgatct gttcatataa taaagaaaat attttaaaaga gaaactaaag ataattttat 240  
 tagtcaaaat agattaatat gatcaagaca gtaactaata actcanatgc gcataatntgg 300  
 cctttgcatt cttaagaaaa atctatatat atgttaatcc attagagtga tagatagagt 360  
 aaatgcaaga taaatttaat atgcgtcaat aaagtctaaa ttaacaattt tatcgattct 420  
 tgatatatg 429

<210> 29915  
 <211> 464

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29915

tactcaagct ttgacctaca tgttccttat ttcggattca tgtggttacta ggctatgaca 60  
aaaaatattg aagatcaaga gtgatttatc ctaattaaat tatttccatt tctaattatt 120  
tttttagaag ggcacagggg aatccgagat agctcttaat acaacagtgc aaagctgcta 180  
cctatatgat atatatgtag ttaaaatctg accctgcca tgtacgttaa gtaataagtg 240  
ggtcgagcct aaatctgtgc ctgaagaggc atatgatttc aagagttgga cctatagtga 300  
atttttaaaa aattcccaca ctagttatct gacactttca tttatgatga ggagaatatg 360  
aagtaatttc tatgaagggtg cttcacttca tgagtntaag aagtgcacat tatcaatgag 420  
tagttgaatt cgatgatatt ggatataatt ttcttaaata aata 464

<210> 29916  
<211> 53  
<212> DNA  
<213> Glycine max

<400> 29916

taatgcatgt catacctact aggcactata cgttgctaatt ccattatgac cac 53

<210> 29917  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29917

aaaaaaccag ttaaccccggt cgaagccact gacatcaggg cgactcagct cggacccgng 60  
atccttagag tcgacctgag gcatgttagc naacncttca taattcgcaa cacaagaacc 120  
tgggaagctg aaaatggccc tctcttaaaa cataaaccac gggtagaagg tcccataaga 180  
atatctaaaa tgcctttaat aaaagaataa tgaacctccc ttggttcttt ttggaacctt 240  
gcacataagc caacaccgaa tattaaatca ngggttgatg ttgaaaggat agcagtgatc 300  
caatcattgc tttgtattgg gtcccgctcct cctttttaga ttctttgtcc aatccaagggt 360  
atngtggtgg atgcatangt gtcttcatct ctttttcatt ggccatgtng aaacttctta 420

gaagtttttc acatacttgg gttggtgaaa tgtaatncat tgctngttgc tatntttgca 480  
atccaggaaa acattan 497

<210> 29918  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 29918

ctaagcttct ataggaatct tcttaaggaa gcttctcaat gaggtgagct tatttatgag 60  
aggggtgtgt gtagctaagc tctagcttct caaggaagtt ttctcaaaga agcttctcaa 120  
ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataatgt gtaacacttg 180  
ttgtaactct gatgaatgaa agtcttatga gacacacttc aaagtcttac ttctccccct 240  
cttttattct ttcaatttcg tgctccccc tctctctttc tctacctctt tcttttcttc 300  
cattgaagca tccttccaag cttcttatcc aaggctcatc ttggtggtga agctccttct 360  
tccatggctt attccctagt ggatggcgcc tgccttctcc tcttctcctt tgccttccgc 420  
tgcactaca tggtgaaaaa tcaccattg 449

<210> 29919  
<211> 213  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29919

gctcactaca agccttaagt gaaaaacat gatattacca tacccttaag gattnnttgg 60  
agcttggatt tgttttggga ataagtgtgg ggggtttttg ttctattgga caacttgttt 120  
tgttggctat gcttcatgat gtattttggg ccatacttga tgtacattgt atattgggta 180  
aatgttgac atgctgaatg aaatgttggt tct 213

<210> 29920  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29920

tctgcatggt tagagagttc tagagagaga aaggtccaag ttccagagag tttgggagat 60  
 tntgttgtgt gaagatctgc agagaccaga gccatcctga gagattgaga tgcgtttgtg 120  
 agtgattgtg aggtcctaga ggtggaggag acatccccac tacttgtatt tctgcaatct 180  
 ttcattcttta tcttctgttt attgtaaagg aagtttccct gttatggaaa gctaaatcct 240  
 ctgttggtatc ttccttgtag gtacttgatg taaatatctt tttatatgtt taatgatgtt 300  
 ntgtgtgttc attgtgctat cagaactgca ttctacgatg cttttagctt gatcacgtag 360  
 atgcatgtgt tntaaggatc attcaacagt gggaactggg ctgattctta gaacttgata 420  
 ggacagggct agtttgttgt at 442

<210> 29921  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 29921

actcttctga ctcattgatgt agatccatgt ctttcttgag tattcatcaa ttatggacaa 60  
 aaaatacctt ccaccaccta tagaagatac tcttgcaggc ccccgatagt caagatgaat 120  
 gtaatcaaga gtctctttga ggggtgtgaat tgctttatga tattaatatcc tatgttgcta 180  
 gccatataca cagtgtctgac ataatttcag ttcattcaat ctttgatttc ccaacagttg 240  
 ctgtttttga agtatcatca taccttcttc agtcatatgt cctagcctca tgtaccacaa 300  
 ttgagtttag tcaggtatgc ccttattgga tcttgatgga acagttacta taccatcacc 360  
 aatacatgtt gtaccttgaa gtatatagag attaccctc tttataccct tcatcacc 418

<210> 29922  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29922

ttagcttcaa gactaatggc cttagcaaac ttcttattcc caaaaggaaa ttcaatanat 60  
 aggctccta tttttaatgg agagggttac cactactgga aaaccogaat gcaaattttc 120  
 attaaggcaa tagacttaaa catttgggaa tccatagaag ttagacctta tgtaccaccc 180

atggtggcta gaaatgcaac aatagagaaa cctagagaat agtcgactga agatgaaaga 240  
agattagtgc agtacaattt aaaggctaaa aacatcatta cttctgccct aagaatggat 300  
gaatattnta nggtttcaaa ttgtangagt gctaaggata tgtgggacac tctacaagtt 360  
acacatgaag gaacaactga tgtaaacga tctangatan atactttaac tcatgagtat 420

<210> 29923  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 29923

tctgggacgc ttactctgga tacaactaga tcatgatgct cgctccagat gaggagaaaa 60  
cgacattcgt cactaaaagt accaattttt gttacaaggt catgcccttc ggccttaaaa 120  
atgtaggcgc tacataccaa cgattgatgg accaagtctt taaacaatag attggacgaa 180  
acatcaaggt atatttggat gacatggttg tcaagtctca aagcatagtc caacaagtgg 240  
tagacctgga agaagtcttt ggggaactcc gtaaatatga catgtacctc aaccctaaaa 300  
aatgtacttt taagggtgggc ggaggcaagt ttctcggctt catgatcact caccagggga 360  
ttgaagccaa cctcgacaaa tgcactacca tactagagat gtgtttcccg accaacgtcc 420  
aagaagtcca taaactgaac 440

<210> 29924  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 29924

attgaattat ttaacatgcc caaaataagt tctctaattc ttatgaatct ttataattgc 60  
atattacata atggagaccg gataaactat atatgaattt gcaatttatt atgtctattt 120  
cttcttacta atatagcaat atacctaaat ttcttcttga aaaaattagt gcatgacaca 180  
ttaatctcca atactacaga aatattattg tatttagttc ttaatatcat aaattgcagt 240  
catataaaac atggtacact ttacgtttca aaatgactaa tataaccaat atttgattgt 300  
ttttaagat taacgtgaga gtttatatgt ttaaggatta acgttttata acaatagata 360  
tggctgctcg gcggttactc tatgtcttaa c 391

<210> 29925  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29925

agcttttcgaa taatagagga actatcttca gttcgtaggt tgccttcac atcagcgggt 60  
 taagcaccct ttntgacca agagccatca tgctctttgc ggtaatcaaa agaagcaatc 120  
 acagcagcac caattaaaaa agatctcttg attggaacat aagggttcaga atcaagagga 180  
 atttgaaaat ggcaaaaaaa agagtgcaca ggtgtggata tggcaatgga gcatttaatc 240  
 gcaatgcctt atgcatgcga tatctgacaa ggtgtgccca gtcaagttga cgcccggat 300  
 gaaaggccca catgataaca agatcttcct cagaaacctg ggcaagaatg gaagatcgtg 360  
 gaagcaaaat ccgcacaatc agataat 387

<210> 29926  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 29926

tagccaaatc atactttaca agttgcatcc ctattagttg cgaatcaaaa ttattgatcc 60  
 aagtaatgat ctttgagttg tttacttctt aggtttccaa ctcatattata gatttcccat 120  
 tgtgttcatt tggaggctta gtaagagttc catcaacata gccctacttt ctattgcctt 180  
 tcaaaaaaaaa atttcattac atctccaata agaataacag agcaaaatag attaccggaa 240  
 ccatcgtgtc gaaacagaaa caagtcgcga acaaaacaga gaaggttgcg atataataga 300  
 tcttcgtgac ggagttgggg tcacgaatgc agagagagag gcagaactgg gtcaaaaaac 360  
 aaatttgata ccatgttaac attgagaacg ttacagttat tccgaattag gaaccaagct 420  
 ctttgatagc atgttaacat tg 442

<210> 29927  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29927

ttcaatctca gcttgttagt ttgtttatat tatgttgtgg taacaaagtt tctggcacac 60  
gactgggtag ctgctgtcag ggagcttcag agcttatttc taacctagat gtcttttcat 120  
ttgggtctttt ttttgtttat ttatttttct atttaaattt ttttgtttca ttatatacta 180  
ttgggtgttca agattttctca gaacaattgc ttaactaaaa attttgggtgc actcttgaac 240  
tctagccaat atacagaacc ttttaatagg ttaaagttac cagttagtgt gggattcaag 300  
tttatgattg ctntaagcac tagtattctt ttaggtctct ctttaagttgg agaacgtaga 360  
tagagagaaa ttgcttaaca gaattacaat taagagaaa gaaatntgaa gtgggaatga 420  
gagaatctgg gttatctcta tatatgtaat aatctgtcca tgcanggat 469

<210> 29928

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29928

atcttccaca gnnagctcca atactttacc tgccatgtng cagatccttc ataaaagcca 60  
ggtcacatc atgcagaacc tatagaactc angccctgca cctatcatga gcatggaaaa 120  
gttcattagc caagtggaat gaccaggagt ccaaccttct cctttgggaa ggggtgagggc 180  
ctnccagcc caagagcctg tgcccanga tgaagacgag tctcntcccc ctgagccttt 240  
catttatgag ccagacacaa agattgtcga ngaggaggca ccatcaccag agcttatttc 300  
tcagtcatca ccatcaccag cttagtctct tgaaaccag agccatctgc accagaccg 360  
atacctgatc agcctcttgc tcangaccct ctagctgcac taatg 405

<210> 29929

<211> 424

<212> DNA

<213> Glycine max

<400> 29929

tgaatttggg ttacacatga ttgatacatg atttgggact tgtgtgactt gatctgggca 60  
agattggatg agaggaagtg tgattttcga aatctgcact tatgcagaat ttttgctttg 120  
aaattgtgca gctgaatttt gcacaagtgc agaaaaatgc ttgtgtgtgg ttgactgtgg 180

aaagtctagt gcataatgag ttctggatgt tcgctagtag atcccaacgg tccaaatgta 240  
ggcttatgca ctatagactt ccagtaaaat tgtggagtcg atccaacggt taacgaattg 300  
gatcgaatga attgttactg tggctctttac gtgagacaag ctgtgattct ggttgatgtg 360  
ttaagcagag ttatctgcct ttgctctggt ctgcttggct gtgatagcta gagctgtttg 420  
aatg 424

<210> 29930  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29930

agcttaaacn ctaaaacaaa ggtgtagaat atgganaagt aagtgagtga tcaactagga 60  
naaaatgtgt gtatgtgttt cttgatttca aggttgtcat catcaaaaan gtggagattg 120  
tagaagcaag cttcacgatg ttgaatcaag attgattcaa gttgttntga tgataacaaa 180  
gatgatgaca aanagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 240  
caagagacat ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat 300  
caagaagact tcacaaggga agtattgaaa agatgtttta aaaaacaaac atagcacaat 360  
tttgtttttc aaaagaagtt ttcaccacat tttctaagtt accagagttt ttactctctg 420  
g 421

<210> 29931  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29931

tgcgcgccag ctgcgccagg cgagcgaggt cacttctctt agatgcaaca gccttctgga 60  
ggaatcttct ggagggccca agtgggcctg gttgctattt acaccccccc tatttactaa 120  
atgcgcccc ctttctattt tgtaattctt tttccgtaac gttacgaaac tttacgaatt 180  
tcgtaacgat acttattttt cttccgcaag gttacggatc cttacggatt atgtatttac 240  
tcttttttag ctttcgaaga agttacggaa acttacggat tgcgcaaaaa cacctctttt 300



cgacttccgc cacattacgg attttcacgg atcgcgcaac cctgcttcct ttagatttct 360  
gagacctctc gggacttcat ttattgtgca acataggacg ccaaatatct canagcggct 420  
aaccaaaggg tgcattgcat caagtaataa tcccc 455

<210> 29932  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29932

agcttggaga gtangcttca atgtatgana aganagaggg agagaaagag agagggggga 60  
gcacgaaatt gacagaagaa aaaggagag aagttaaact ttgagttgtg tctcacaaga 120  
ctctcattca tcanagttac aacaagtgtt acacatgctt ctatttatag attagataac 180  
ttccttgaga tgctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300  
cttccttgag aagattccta aagaagctag agcttagcta cacacacccn ctataatagc 360  
taagctcaca tccttgagat gagaagctag aacttagcta cacacccnct ataata 416

<210> 29933  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29933

tcatgttttt ggtatgtacg cgaaggactt caagtcttcc aacttcatca ggaacaccaa 60  
tatcaatttc actatcaaact ctaccagaca ttttcaatgc agggtaaatg ctatttggtc 120  
gatttgtagg cagtggcagt gaaattaacc tcaactatat accaaaggat atccacctca 180  
tatgccgctt ggggctataa tctacacata aaggcacaac taaaaatcta ttgaggacca 240  
cgtagagaaa ctaaagccac caataagtgt aaaatgctca gatcaaagat agcccaccaa 300  
taaaaatgag atttttatta tatatgtatg caaaattatg aaaggaaagg tatatttggt 360  
tgataatcct agctgtcaag gaattacttt ntataaccat tagattaaaa aaataagagg 420  
tgatataagg agtaacaaat ttgtctagat ataaaaatat 460

<210> 29934  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29934

agcttcgaag ctatggngg attttctttc ttgctnngga atnngngatt gcggtccttt 60  
 tgtcctccat gtttatcttt acgttgctta accttttctt gatactatgt ttcttgacag 120  
 tgcaagcgac actataccta gggatgaagt tgatcttata aaggatgttn tatcgatatag 180  
 aatgagagtg agagaaacat gagagacaga agcgggcttg ttcgttttgt ccagattcgt 240  
 tacttaggcc acccacacgt gaacaagaat gatccgtgaa ttcacctag cgtgacacgt 300  
 gcttgcatat cagccacgat tagctcttat taactctccc caattctagc ttgaacttct 360  
 agcataacca tcgactagta aaatcaagct acttaatcct gccttggtga cctgcact 418

<210> 29935  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29935

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 tttacctggc tattaaggca aggatgattg cggaagttac cattaacagc ctttagtagt 120  
 tctacaagat ggtagggta ctggcaagaa aatgctcgtg gtactatata tctgtgcaat 180  
 gtgattgcct gaacatggct ccgtggcaat ccaagcatgt caagtagagt gtcacctcca 240  
 cacatgatgg atggtgcccc aaaggttatg acaggaagca gagaggagaa tagcgcttcc 300  
 ttccttatcg gtagcataag atttacaagt aatgccaagc tcccccaag ggaatgacca 360  
 gtgaaacgga tagttgcacg tgaacatga gatttatgtg agcacgaatt tctggcaaca 420  
 tctgttgata tgtccctttt gcagcctcgt atatac 456

<210> 29936  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29936

acaaccggcc agaccctgga gaacaatcta gntcacactc caataataag ggcacctgac 60  
tggagtaaag agtttgagct catgtacaac gctagtgact atgcagtagg ggtagttcctt 120  
ggacaatgga gagagaatgc attccatgcc atttttatgc tagcaagatc ctgaatgatg 180  
cacaactaaa ttatgcaact actaagaagg agatgttggc cattgtgtat gccttataga 240  
agatccgagc gcacttaatg ggctccagag tcattatctc tactgatcat gcatcaatca 300  
tatacctttt cac 313

<210> 29937  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 29937  
acttctccaa cccttgacct gacttcttgg aaagcctttt cacagcaaac tctggggccat 60  
ccttcagtct tccctgctaa ccaaattggt agaaatattt tgagtttagga aaacaaacat 120  
ctatagttgg ttttccatat caccttgtag acaggtccaa agccaccttc tcccaatttg 180  
ttactctcag cgaagttctc agtggctctt tctatgatgg ggaaatcaaa tgtggacaaa 240  
tcaatgcctt cttttctcag ttttcgttcg aaatggttcc tataaattat tcttgctacc 300  
cctgataggt ttgaagataa caatagagaa gcactatgac actcacaatg tgcacgtatg 360  
atacataaac ctactatcat atattag 387

<210> 29938  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29938

tatagaaaaa tttttccaaa tagacttata caactaataa ataatagtta tgaattaaat 60  
tgattttatt aaccatgtat tggcaataca aattttttta cattgtcaat cagctaaaaa 120  
aatatcattt gtataatttt ttttaaatta ttatatatga taaattgtga ttgaataatg 180  
aaataaaatt aattaataac attattatat atatatacta ttttttatta ttaattntat 240

attactggaa atagaatttg gtaattaatt tatgaatttt tattcttaaa gtgatgattt 300  
aatgatagaa at 312

<210> 29939  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29939

tgtaattatg taatatattg tgtaaaagaa gtattgtaaa ttatggatat tatgagttgt 60  
ataattatat gacaattatc tactgtattt gcagttctaa ttataaataa gagtctccac 120  
tgtgtagtca agacacagat tcattcacat gaactctcat ttttcttctc ctcacaaggg 180  
attacacaaa agattaaaag gcagaaagtt tgcttacctc caaaagttgg agttcttcag 240  
atgcttgtct caatgaatct atcacatct cataattntc aaagactgaa aaagaaattc 300  
aaatcagtca agtaagattc agttaagcc ccaacaaggg gagagaaaaa ggatcaacac 360  
cctcagaaaa ctattgatga aaatgtggng aaactaattt cccctattt gattattatc 420  
ttttacagaa tcagaaattt ggcta 445

<210> 29940  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29940

tagcttgnan gattatggng taccatcac atgtggtact aggtggcggg cgggcgatgg 60  
tgcacaacaa gttttccaca tccacaatgc ggcataaac ccaccatccc ctgttgccca 120  
cctccatcta agctcacgta ctcccatgta gcccatatcc tcatttctct caacaccggg 180  
tccccatcaa tcctctcaag ctccacaac atccaagcan aacaacattc aaactgcaca 240  
agctatcaca gccaaagcaa acagagcata tgcagaaaac tntgccaaaa caccaaccaa 300  
atcacagctt ttctcactta aagaccccag taacaattcc ttcgttctgg ttcattaacc 360  
gttggatcga ctgaaaatt tactggaagt ctctaatact taagcctac 409

<210> 29941

<211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29941

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ctgatgatat ggtgttcgcc ggcaaaagga tcgatgtggg tctgaaaaaa ggcaaattta 60
gtcgtcctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag gatgaaggag 120
aagcccgtgc tgtgactgcc attcctatac agccaagttt cccaccaacc caacaatggt 180
attactcagc caataacaaa ctttctcctt acccaccgcc cagttatcca caaaggccat 240
ccctaaaatc aaccacaaag actacctact gcacttccaa tgacaaacac caccttttagc 300
acaaacaaaa aacatcaacc aagaaatgaa ttntgcagcg agaaagcctg tagaattcac 360
cccaattccg gtgtcctatg ctgacttgct cccttatcta cttgataatt caatggtagc 420
cataacccca accaagggtc gtcaacc 447
```

<210> 29942  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 29942

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ttacgcatct gtgcggtatt tcacaccgca tatgggtgcac tctcagtaca atctgctctg 60
atgccgcata gttaagccag ccccgacacc cgccaacacc cgctgacgcg aaccctttagc 120
ggtcgcatcg tatattacta tcaataatag gtgctatacc gagtacttat cgagtaacta 180
tgactaatat ag 192
```

<210> 29943  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29943

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tcgcnnnnc cctttgtttc tcaactnnaan cntttttttt tattgttgaa taataatagg 60
gttgtcaatg acatacatgg gtcttctact aagaagaaca aagagtacca agagaagcta 120
ccccttggtg tgctcaaggc agtggaaatt atttactcta aagccaactc cgtggtaact 180
```

ttccttcttc gtttcttgct tacttgcttg tgtactcaac tattttatgt tatgggttgc 240  
 aaaacaaaaa aggaaaataa aaatgacttg aggttatattt atttcttgag gaggttgaaa 300  
 tagaaatatc acgagcatta aaagaaactt ttttagtggt ttgataaata ataatttttt 360  
 ttgggtaggc tgaatacatg tttcaatatc atcttat 397

<210> 29944  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29944

tcaagaataa tggcctcagc aaacttctta ttcccataag gaaactctat aaataggcct 60  
 cctattttta atggagaggg ttaccactac tggaaaactc gaatgcacaa tttcattgag 120  
 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180  
 gctggtaata caataataga gaaacctata gaagagtggg tggagatga aagaagatta 240  
 gtgcagtaca atttaaaggc taaaaacatt attacttctg cccttggaat ggatgaatat 300  
 tttagggttt caaattgtaa gagtgataag gatatgtggg acactctaca agttacacat 360  
 gagggaacaa ctgatgttca aagatctagg ataaatactc ttactcatga gtatgaa 417

<210> 29945  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 29945

ccttctgtgc tcttgggtgg atgtgttatg gctatgcttt cacactttta attataacat 60  
 tacatagcag gagtgactct gatggtgggc agtattctgt catggcatatc atgatcttaa 120  
 gcatgcaatg ccgcaacacc ttgtattatc tattactgga tgcaccatct accaggggca 180  
 cactaggcag tgcatagtgg agcatgagtg aatatccaac tatcgcggga cgctcattga 240  
 tattcgagtg catttctagt gtatcatctg ctatatctat ctttggatta a 291

<210> 29946  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 29946

agcttccacg tttgtcagag aatgggttggc aataacagcc tctatcaaga agtggcgcat 60  
cgcttcatca tcttacttta taatcgcaac ctcaaagagc tgatgactca ggtcgtgaag 120  
acacctaaac aacaaatgaa ccttgagcgt cttatgggat ataattatag tatctagaat 180  
tgggtccgaca gcacgaacat ggttgcagat gcattatctc acatttttga gaactcgtca 240  
tcaaccttgc tactttctgtc agtaccatgt ttcacattct tggaagagct taagagccgg 300  
ttggcccgag attcagtcct tcagcaactc cgacaagaca ttagcgataa cccgaaagat 360  
tatccagagt atgtcatcac tcagaactta atcct 395

<210> 29947

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29947

tggaaagata gtggcagaaa tntaactagc gctaacttag agcttaataa attatgagag 60  
aaattagcaa agtaggctta cttgttaaag agacctatac ttaagaaact tgtacgcact 120  
gcaagtctgc aacagttatt tggcccacaa gcatgtattt attcccttgt gcaaaatctg 180  
atTTTTgtag gctgacccaa atagattagt ccaaaatgaa atcttctgtt tttagcttta 240  
atTTTTtgat taaaattact tttttttatg taggtaaata agttagttcg tgtaatttta 300  
tagactaaac tcgttcttaa agcagatcaa tccgcataaa cctacttggg ctatggggtg 360  
taaggactta tccacaatat ctattaattn taggaaaact atcaacgtac accctatntt 420  
tggaagaaat tataatatg 439

<210> 29948

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29948

ngactcgttc ttaagcgaag atgttcgcaa gagagattca ggagaatctt tccgttatgt 60  
ttccattca tcattgaata cctgaaggca gggaaagact acctagaggg gcagaatgtc 120

aaggcagatc aaagtcaaga gggaagggtca gagaaatttc aagtgacgta ctttgctgaa 180  
 tgtgacaaga aggtcactta gcatcagtgc atgcaccaag aagaccagtc acacacacac 240  
 aacgcgatga tgatgatcgc aatgcacact gatgactgag atgcattatt gcagttgata 300  
 gtctgtgatc atgatcatga ctgaggctcg tcacactctc tctaagatat gctactaatt 360  
 tt 362

<210> 29949  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 29949

taacaagatt tcggtgctga agtttagcaa tcagtttgac ttcattcttg aactctgtca 60  
 ttccttgtcc cgagcctctt gagagcctct tcacagcaat ttcttgtcca cttactaatc 120  
 ttccttaciaa aataaataaa taaattggaa taatcttaat cacattgaca ctttttgagg 180  
 tctttttcct aaaacgacaa agaagattga atcaccttgt atactgggtcc aaaaccacct 240  
 tctccaatct tgttgtttat tgagaagtta tcagtggcaa tgactattgt tgaaagggtca 300  
 agtaagggga gatcgatatt ttcttcactt cctcccctat tttgatcacg tacaatatct 360  
 gaatactctg ataaaatgga acaatggctt caatttagtt aaaggcaciaa tgtatatgat 420  
 agtttagtca agtcaataac tttgcagcat tacatctttg 460

<210> 29950  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 29950

agctaggccc gtcccgtgc atctctctct ctcttgccag ccaagacctg gacatcatct 60  
 tgcaaactct agcagcgcac gaacacttta tcaccatcca acctagtgcc aagcaactat 120  
 ggaagacagt tggcggatcg accttatggc ctttaacaaag gcgatgggtg cgtttagcaac 180  
 cttatggcac tccactttcc agacagtgcg agcagtagcc ctgcatttgg cgacctatac 240  
 ctgcaaggac gtcaccttga gcaaagccta atggtgccac tcgccattct cctctataat 300  
 cgccacactt tgctggagaa cactttggca aaagatggag cgttcgatac cccagccaac 360



caaatc

366

<210> 29951  
<211> 458  
<212> DNA  
<213> Glycine max

<400> 29951

actcaagctt gacagagaaa ataaactgtc tgagttagat ttccatctgt gctttaatta 60  
cattgtgcat tgagtcgcaa tgtaatttgt ctttgtgcta gcggactcta tgcaaggttc 120  
actctgagta cacatatcac aagggagggt agcacactaa tctgtgaagc tagcacacta 180  
atctaaaata ttaaaataag atttaccagt tttagcaaaa gcaattttta ccattcttgg 240  
ttaagtctac ttcaaccatt tctagttaaa aattcaaaag gcacaatacc catatatgga 300  
aacatttggc atgtccacca tggctataaa atggtcatta atgttgtcaa ttcgatcttg 360  
tcaacattaa gcctaaacaa gtttcatttg gaccaatcct taagccttat ctctttactt 420  
ctccaaaaaa aaatcccact tggaaccttc attcttca 458

<210> 29952  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29952

agcttgatgt ctttagactg aattaactcc ctgatgnaaa tggggtctat gtcaatgtgc 60  
ttggatcatt cgtgggtcgt atggttggag gcaaggctta caacaaattt attatcacia 120  
aacaatatca cagaggacac atcaatttca aagtgaagaa gtaacctttt caaccaaaaca 180  
acttcactag taacaaaaga caaagcacaa tattcagcct cagtggacaa tttagaaaca 240  
attgattgtt tcttagaatg ccaagagaga acgttgtttc ctacaaatac acaaaagcca 300  
gaagtggacc ttctggtatc aacacagcta gcccaatcag catcagtaaa ggcaatgagt 360  
ttgagagagc tctgagcagg anaaaataag ccttgtccgg gagcatattt gagatact 418

<210> 29953  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 29953

tgtattgatt ccatgaagtt gaacaattga ctccaagcaa tatatatgaa cttacttatg 60  
gacaaacaga aatgcagcac aaagtaacaa ggtgcctgta acaagaatcc atccaataac 120  
caccaagctg cagccacgat aaaaaaaaaa aaaaaaaaca gaacatcttt tactgataga 180  
aacttaacgg gagacaaatc tatcagagtg aaggaaatga aatgaattca acttacgagt 240  
atacaggacc cggcaaagca agtaaagaaa atactgcaaa aattaaatca agttcatatg 300  
atttggttaa cattgagtat agagtaagaa aaagaaaaaa gacaaaacca aaatcaaaca 360  
tacacaatcc gagaaatgca acaaagatca taacagcagc aacagtaaca agagccagtc 420  
tcctgcagat gatcacaaca agcaatgtta attaatc 457

<210> 29954

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29954

ggtttgtatt gccatthttgt tctaagggtg gcatttcttg gtaaaactaa ctttccaaat 60  
gtttgccttc gcangaatgg ccccgaggaa gcttgctca nagaggcca ggaaggacaa 120  
ggcggtcgaa cgaactagtt ccgctccgga gtatgacagt caccgcttta tgagcgctgt 180  
acaccaacag cgcttcgagg ccatcaaggg atggtcgttt ctccggggagc gacgcgtcca 240  
gctcanggac gacgagtata ctgatttcca ggaggaaata gggcgccggc ggtggacatc 300  
actggttact cccatggcca agttcgatcc agaaatagtc cttgactttt atgccaatgc 360  
t 361

<210> 29955

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29955

actcaagctt actaaaacag gagcatatct cttctcagat cctactctat atatatcagt 60  
agttggagct ctccaatact ccaccataac cagaactgag ctaagttttg ctgtaaacaa 120

agtctgtcaa ttcattgtca tactcttgaa actcactgag cagtagtgaa aagaattctc 180  
 aagtatctaa aaggctcttt acaccatggc ctacttctca nagctgctac tccaggaatt 240  
 accattccta ttaaggccct atgtgatgca gattgngctt ctaaccctga tgatcacaga 300  
 tctacttttag gagctgctat ttattttggt cctaacctta tatcttggtg gtctaagaaa 360  
 caacagattg ttgcaaggtc aagtactgaa gctgagtatc gaaacctatc tcaagctaca 420  
 actgaagtag tgtggatnta ttagaattct aacagtatca taga 464

<210> 29956  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29956

tctagtattc aaagaccttc ttctgtaagt gtttgttgtc tctatgcgaa tagaattctt 60  
 cacttgagct ttgtcgcaag ctaccctttt gcggcgagc gaggcaaggc tcacaggtgc 120  
 gtcttcata ggaagaaaat gcgcggagtc tccaccaacg tttattgaaa ggaaaacggt 180  
 agaaaaatca aaggaaaccg gtcattgaaga atattccaga ttccgggagtt atctttacgt 240  
 ttgaggaagg tattagcacc tctcacgttt gtcccaaag gacaacagcc ttagattaga 300  
 attgtgtgaa attatgtatc taaactntta tttctttttt attttttgag gtcgacaaaa 360  
 gcggtgctct tgctcctacg taccctccat cgaagaggaa atcagacctc cgtagttctt 420  
 tcanaaggga caaatcaatn gattct 446

<210> 29957  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29957

tttgcttact cttntctct tgcaaccac tccaatttca agaaaccccc ttctctgcca 60  
 ctctacaga tntctttctt tatattntaa tcgtttttt ttctttttct gctggttttc 120  
 tttttccctc cactttcata tcttcacat atattgtcca tttcttggtt tcctctctct 180  
 ctttcacca ctttcagaaa agattctcac tgtcaacttt tcttgttttt ttcctttaat 240

atccagatgc tgaccagcag cagctacttg tatgttttgt taggtactct ttattatcaa 300  
 ttatgaattg gagtattttt ctattttgta actcttagta tatattaagt gagtggtaaa 360  
 taatattaga atacccagtt gtccaatatc tgata 395

<210> 29958  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29958

ggcaagaact ggctcaacaa aggctaatta tgagtgtaga gcaattcatt gagaagggtgg 60  
 tctggcttgg agcccgacct tcttttgtgg gggataatga aagttttaca acccaggcac 120  
 ctcaatagca tgagctagag ccagaaaatg atcactcatc tgaagccatc atccctggag 180  
 ctgttgattt ttcgaaaaga agattagaga caagatccaa tgaggctgct catcctgggc 240  
 cagtgcctgt atcagctgat gcaccatttc caggggtgga tccatcttca cctcagcacg 300  
 cagcagactc ttccactcct gtcttagaga tacctgaggg ccagaccata ccagttctga 360  
 ctntggacac ttctcctnca gctactccag tattgcatct gacagatgaa gaggatgttc 420  
 anacacagga tacccaagac cagtcaca 448

<210> 29959  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29959

ttagcttcca tcatcntnta aagctgtccc cccacatggt cacttgatgg aatgngtcat 60  
 atatacccat ccttttctgt aggactagtt gagttgatga agagttcata tactataaat 120  
 catgcaaaaa gaaaattcac atctcaaatt ggagattcaa tgcaatgtag acaaggtaaa 180  
 atgggaaaat ntagacttgg ttctctataa aactggcaat tgatttgaaa actggaatat 240  
 gggtttgctg gaaattgaat gaaacctcaa catcagaaac agcaagattg aacttttcac 300  
 atngggtatg ttctgggtatc tctaggattg gccaaaggaa ataactgttt tctaaacaat 360  
 actattaana aacaaaataa catatgtttg atgccactta taag 404

<210> 29960  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29960

tctgaccaag ataaanaaaa gacacactaa ctaataaaaa ttaaataacc acgtttaaga 60  
 gtgttttttt ccccccttaa atgcaatatt taaagtagca atgtttgtca tattcataga 120  
 catagttgag agtttactcc ttaggtaatt ttatacttta taatcattta atttttttta 180  
 aatttttttt atcaatttta aattgaattt attttatata tgaagtatca aacatttttt 240  
 tttttttttt ttataaaatt tgtagacatt atctattcta taaaaacttc taatataatg 300  
 attggatcat tgaaatttaa tatcaacaga attatcaaatt tgactaactt taccaagtta 360  
 ctcttgaagt cgcttgtctc aatcttttta gatactaatt tctttaatct cttttacaca 420  
 tgcattgata ttttcttaga tattga 446

<210> 29961  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29961

tctagcanga ngttttaata ctgagangac atgaaactat atgcgngaca tttcttgaag 60  
 attgtgtttg acttaccaac tatgcatcca attttaaatt gtttgtaaatt agaacaaata 120  
 acgaaaaaga tgggtggaact cacaaccaa gaggagggtg aattgatttc taaatcaaat 180  
 caaactttta aaaaatagag ctataaaaaa cttcttttcc aatgatcgta tcacaaactt 240  
 ttgataaacc aatatttaatt caatcatcct ttacacaaag tcttttgcta taattgtttc 300  
 ttataatata ttctctttaa ccttcagtaa attgatcaag actagaataa gaaagataga 360  
 tatgatcaag agaagatgtg caccaatttc tatattgggt cactctcta 409

<210> 29962  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29962

taactgaatg gagtcgttgt tggggaggag ttcttcgtga tcttccttggg gttgtgacca 60  
tctagtatgc tcataatgta acattatgtt ttctataatg attgattaag tgttttaatt 120  
aaattgtaag agtaattaaa tttaatttgc gtgtcgtaat ttgtgggtgtt tatagttaat 180  
gtttttgtta tgcttatgct tatgcttaaa ccttatttta ngtgtgaata atacgtttta 240  
gagtgggttg accgaggtaa gtgggccttg agtgataagg atgagatgag tgagtttaga 300  
aagtgaaaat gtgagattag aaggaatagg aagagtcaga gactcaacat atagggattt 360  
aaatntgaac cagatcacia acactctcat tcctctcaa aacaactcac aattagagaa 420  
tgtgagtcac tgaaatccta gtacaaa 447

<210> 29963  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29963

tcttccttgac ggtcatctgt ttagtccttg tggatcatctc gagagtctcg gtggccatgg 60  
tggataggtt ctgagtgagg caatatacaa cctcttcaag gcgggtccatg gtgggtgtgg 120  
ggccgttgtg agcgagcatg attagaggat ggtgtagggg ttccagtaag ggaagaggca 180  
agtaatggca gccatggatg ataggtcaaa acaatttgtt acgaacatta ctacactatg 240  
ctatgctaac tacactatta ggtatttcat aattcttctt tgccttattt cattactgtg 300  
gtgtatttat aatgatcata tagagatata atttggcact tttggcccat aacaaanaag 360  
tataacagaa atgcaaaaaca acatagtaat gggatcatatc tagtttggtg taac 414

<210> 29964  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29964

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taatgttact tccttcacta aagcgggtgat ccatctccac acatatttta tcaatagcaa 120  
 cataaaaaat ctctggacgg tcatgatgaa gattagtgat agtctctcct tctgctcttg 180  
 aacgaccccg aactgggtata tcgtcatcca tatttggtac cagaatactt ttagcaacac 240  
 aaaatccttg gacatcggca aaaaaattat tccagccact ctctctcatt gtgccaacc 300  
 gagctttgca acatcaacta attccatggc attcacaata ttaagatctt ntcttcgcaa 360  
 tatacttgaa agctcgtttg tttgctatga cctgtatcac gcacaa 406

<210> 29965  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29965

tttgcangca agcttgtanc ttggngacca actggagctn ntcacactgc gtggtgtgga 60  
 acgatggcgt cctcgattgt ctatacaaca ttgntcaata ccaagtacaa tgaaactcca 120  
 tagcgatgaa gaacatgaca tcaactgtgag atatatatgt tgagataaaa naaataacgc 180  
 attatgatgc atacgagatc cgatagatag gcacatcatc atggatgtta gtttgcggtg 240  
 atgactcgta tacgtcttct atgttttagtt gacgaagtan gaagactcac cccttacttt 300  
 tt 302

<210> 29966  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 29966

tcttatcaag gcactctctt ggtggtaaag tctttccttc catggattat tctctagtgg 60  
 atggcgcttc ctctcacctc ttctccttta tcttcgctg caactccatg gctaaaaatc 120  
 accattgaag gaccttattg aagctcaaag atccagcttc catagaatct tatcaagcaa 180  
 gcttccatca agcactaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240  
 ttaattttca gctttacctt ctcgctccatt gttgtttttt tacttttctc catgtatctc 300  
 ctccacatgtc ttgtgctgaa tattttttatc atgaatcttt agaatttcca ccaattaaac 360  
 ttgctataaa agctagattt gatttttctat gggtcaaaat tcttggtcctt gttcttgaac 420

catgaattgt gttgagttt

439

<210> 29967  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29967

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cttaaaaaat gatatgtgac tacttcatac ctgtatatga gttttgctaa ttgtgtcgag 120  
ttgttccttt atccagacag ttgttgcttg tagcttttgc aaaagcaatg atatttatga 180  
tcaagacatg cacatcttct cattacgatt gtaagtgatt tttattcttt gttttcatgt 240  
ttaattttgt gcaagtaaaa taagtatctt ctctgtcatt cattcttatt ataactcctt 300  
ccatgtgatt gatgtaatat tgatgacata caccactaaa acatatgata cacttgagaa 360  
gagacccgga naagattcag taacattta 389

<210> 29968  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29968

tatacattta gttaaacttc atatataact ntaaacatta tggcatataa gatgattttt 60  
gaatatcggt aatggaatac aatcttactt aaaatggata aaattattat agaagatatt 120  
tataaattaa tagggatttg ggattcatga ctaactatca gtattattta ggacgtattt 180  
cactctatgg agtgaaaaaa attatgtaaa atgagaagta attatggatg tgtctattat 240  
taatataaat aaaatctcct ataaacagaa tccaattaaa ttaaaaaaaaa taaaataaat 300  
gcacctttct tttcactctg tacgcgcttc tcacctttta cagcaaaata gaaaatctaa 360  
aattaattta ggttgaaagt agtagttcta atttaaattc agtgatatct aaagtgataa 420  
agttaatctg tcgcttacct 440

<210> 29969  
<211> 359



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29969

agcttcccaa tatggagagc tttatcttct gttgganctt ccttgtaggt acttgatgta 60  
aatacctgta tatctattta atgatgtttt atgtgttgct tgtgctatca gtacttcatt 120  
tcagtgtgct ttttccttga tcatgtagat gcatgctttg ttaggataat tcaacagtgg 180  
aaactggctc gattccttaga acttgatagg acagggctag tttattgtat tatcacgagg 240  
aatcgngta cggtaaccta gttgtttgta tgtttgtctt aatgcagttc tggtcgagtt 300  
tagtccaaca agaggaatct gangatgatg cttggtcggg attaagctag actatcatg 359

<210> 29970  
<211> 460  
<212> DNA  
<213> Glycine max

<400> 29970

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aatatctttt ttatctattt aatgatgttt tgtgcgttca ctgtgctatc agaacttcat 120  
tctaccatgc attgccttga tcatgtagat gcatgtgtat ttaggatcat tcaacagtgg 180  
aaactggctc gattccttaca acttgatatg atacggctag tttagcatat attcacgagg 240  
aatcggggta cggtaaccta tttgttgtat gtttgactta atgcggccct ggctaagttt 300  
aatccaacaa gatgaatctg tggatgatgc ttgggcagga ttatgctaga ctatcatgat 360  
gaatcggggc tgagcatttc atgagatacc atataacgca tgagcattgt tgagtagaga 420  
atatgctttt agcatcagac acctattatg aagaccaacg 460

<210> 29971  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29971

tttcctctg ttccngcaag acatggaggg ggagcgacct atgcacacca gnnecatctg 60  
agaagaagan atgaaacnct aacgccccaa aagctttatg tgccaactcg acaggtaggt 120

gacaagattt tccatagacc aactggaaag acataagtcc tgtgggggct ttataggcta 180  
 ttctgtatgg ccacaaatct taatctagtt tcagggacca atccttcctt gattgagcaa 240  
 ctatttcac tagaattatc ttaacttccc tattagaaac ttcaactttc ccattggtct 300  
 gagggtggtg aggtgaggct accttgtgtt tgacactgta gtgtaggagg acttttgata 360  
 gccgtgtatt actaaaatga gaatctccgt cacttan 397

<210> 29972  
 <211> 230  
 <212> DNA  
 <213> Glycine max  
 <400> 29972

gcttgcacca acattcatta gtccaataca cactcaacag atagtcttca tccatccact 60  
 attccaatca ttcatgcgca atatgatgca tgcacctgac ctcaactctc atgtgcaatg 120  
 tggatatcatc ccaaggaaac agcctaagtg tgtccacacg acactctcac ttaggaaaac 180  
 tatgtagtaa atgtcgaggc caccctgtcg ggcacaggca actccccccc 230

<210> 29973  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <400> 29973

caaatttcat ggatcttcca ttgatgatga tcatggaagg ccaaacactc aatcaatcca 60  
 aggatccact ccaagcaagg ctgaatttga gttctcgggt agtatttcta atccatgtga 120  
 atgttcatct gtttcttcaa tccatatttg gattttcatg attatgaata tgcttaggat 180  
 tgaaaacaaa ttagtttagg aattttcttc ctaatcttga ctttaatcac agattgctta 240  
 gatgatattt caacctaatg tgcgatctca atgaatttag agattgattc gattgaaaca 300  
 cttctaata gaattaattga act 323

<210> 29974  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 29974

gaattcgcgga cattgcgctt agcgctaccc tgctgcttag ctctagtaag tggatctaag 60  
cttagcgcca atcgtgcgct gagcctggct gaagacaact aatatgctta gtgcaactgat 120  
ctcgcgctta gcgtgcggcc ttgatattga tgccctgccca gattcttctg tcgtgctaag 180  
cgcgctgaag ctgtgcttat cccaataatg agctcagctc aactgtcact ttgggcactt 240  
catgacttag actctatttc acttgaaatt gcacatatgt catcattaaa tccaatggat 300  
atattctaga gacaacttta tccatacaaa aaaattatctt acaaaaatca ctacaaaata 360  
accattaatt ggagaactat actagttttg gaatatgaat tctatacana agttagtcgt 420  
ataaggcgac taacagtgac catga 445

<210> 29975

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29975

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tgtgaattgc cttcattgta gacaatttaa cctgaacca gattaaagaa caacacataa 120  
aactcatata aagcggaaac aaataagcgt aagcttcaaa caggaaattg gattaatact 180  
gcatgtggtt gcaattcttt ttttaaaact ccataggatc ctaaaccctt tttcattatt 240  
at ttgggttaa tgtttatgga cacaataaat ggaatatata aatatttata cattcgctat 300  
aaagaaagaa aataaaagggt ggtgcgcgcg ttcggaacat acaataagaa agtggttgat 360  
atgccatggg atcaacaatg catccaacaa agagtaaaca agaattagac gcaaatcaca 420  
ttgtctcaga ttacttacgc aatccgt 447

<210> 29976

<211> 210

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29976

ttgcagaagc tgctggttgg tngacanaac aagaggacgg gcccaacata aaaacaaacc 60



cgctcgccaa ccatggaggg ggggaggaca atgccaacga ggcgagaaaag ccacacgggc 120  
ccaagcatgg caaggacggc acgaccccca gaaggaataa ctacaaagcc tggcacaacg 180  
cgggcaagat accctgcaac gggcacaaaag 210

<210> 29977  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 29977

tgaggtggat tgcaatggag aaggtgttgt ttttgctgag gctttcatgg ccagaggtct 60  
agtgtattat tccccctctc ataatacagg tcacagatta attaatcct tcaacttttg 120  
gaatttctag atcatgaacc gaaaatccta tgaccacagc ttataaaaaa gaagagaaaa 180  
acacgtctaa ttataattat tatattcaat tataagttta tttatcgatt aagtatgatc 240  
atcattatga agatattcaa atgatgacct actgggtttc tgttaataata acagaggacg 300  
catcaagtat ctaatacaag tgttatgggc tgggtgtgtca acgcacaaaag cttgtgtata 360  
ggaagcttat ggtggtataa tcccctgcag aaatacaaat attaatatt ttaacagatt 420  
tgtctc 426

<210> 29978  
<211> 142  
<212> DNA  
<213> Glycine max

<400> 29978

tatccgaacc tacctactca tactttatgc ctagactgat cggtactct gcccttaat 60  
ctttctatgc atagagcata ctgtcaatga gacagccaag taccaactaa tctcaagaga 120  
aacatgtcat caagcttcat at 142

<210> 29979  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 29979

ttacaatcgt tgaccatgat ttgagaaacc gtgagggtta atatcactgt tgctatgaca 60

atcttttgtt atagtcagtc cacatggtag ttatgtcaca gggaatgttg actataaata 120  
tcacgtctaa gctatcggaa ctgactccga acttggatac tgactatagt gattcaacag 180  
actttttgag actacgggat ctatgagaga ctgagcatgt attctataat gactatacaa 240  
agtattttcg cactataacg actattaata tcatactcct gagactatgt atagagtaga 300  
tgagttatat taagctatgg atcggacatc atcaagtata ctgcttgatt atata 355

<210> 29980  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29980

agcttgatnc tcgaatngat tntagcctta gtttcacttt gggtattagt caattcggtt 60  
aagaaagaaa aatcccanag aanaacgtcc gatttgattt tttgattatt ttattaaaat 120  
atatattttt tattattata ttactatttt gccttttttt tgttttaaata gtgggttacgg 180  
catgacagaa cggtcgaatt tcattttaac agaaattaaa agatgttaca attcaaatga 240  
tcggtggaaa tttattttat ttttgattag gcgaggaaat gacttanata aatgactaaa 300  
gcacgtcaaa agaggggtatg gaaagtaaat gaaataaaaa taaaagcacg cgaaacaaat 360  
ggggaccact aagggtacat agaatg 386

<210> 29981  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29981

nttaactgaa tttgcaacgt tctaattggt ttttaaattg tgtaatcgat tacaatatat 60  
tggtaatcga ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120  
atcttttcat aaaattattt gtgtaattga ttacatgggt ttggtaatcg attaccagtg 180  
acaagttttg aataaaaaatc aagagatgta actcttccaa tggttttcag gtttttctca 240  
aggttataac tcttccaatg gtttttcttg accagacatg aggagtctat aaaagcaaga 300  
ccttgacttg aatttcaata actntatata tatactttta catcctttga atctctttga 360

acatcttttt gaacttcttc ttcttcttct tcctttgcc aagctttct gagttttctg 420  
gtttccaaac cttgttcttt 440

<210> 29982  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29982

agcttgacag gtccaggtgc ggttgctgct actggtggag ggacttcaat ttgcttgcca 60  
gacctcaagg tgatggcact cacattcttc ggattntgca ccatttgtga aggcaatttg 120  
tcagaatttt gggactgagc ttggttcaac tgagtagcca tctgccccat ctgatttctc 180  
agactctaaa tagaggctct tgtctctntc tgaaattgca tattctggat agtcatttgc 240  
ctcactaact cctctaagga aggttgagaa aagggcctca gttgcttggt gtctttgttg 300  
gtggtgctgc attggaggag gaacatatgg cctgcttgga ccaacaacat tctggaaggg 360  
agggacaggc t 371

<210> 29983  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29983

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cagaaacatc aatatccacc actccttcag taggtctgcc caggtatttg ttgatcaccg 120  
caggggagaa tctaacacac tttcctctga caaacactct ttgataatca tcactttttc 180  
tgtttgttat gtcagaggga atgttgacaa taaattccct gactaggctt tcataacagt 240  
ctcccaactt ggtgactggt ttcagtagtc cagcagcctt gatgagttcc atgggtctct 300  
tgcaatccaa ggcatttctt ccagttctc tttccaaggc aagtctgcgt tgatacacgt 360  
atttccacct ttcagcattg ccaatggagt ggaatgagat gttgtccaat ggtgcatcan 420  
ggacattntc aggcaccttt ttcccagatt tcttggt 457

<210> 29984

<211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29984

ctaagctgag tcacattggg ggttccagtt aaacctgcgc tgtgtatata cctcattatc 60  
 aattggccta gtatcaacaa cgttatcaac tgtttgaatg ccctccaaaa gagttggttg 120  
 anaactatca ttacttgaag gcagatattt atacacgact aataatccaa gagtgaatat 180  
 agcttgcagc ttcgtagagt ccccttgaac tgagaagaat atgagcatgg cacgtatgaa 240  
 cagatccaca cagagacgca tgatgcatat tacagtgtct attaacctcc catcgttgcc 300  
 tgcggggaag ccacgaactc gatacacaaa cagagtattg tacttgtcaa ccacatatct 360  
 atacccaaaa taaatggcac caacaggaac cacaatggga ttaaatgaac agtatactag 420  
 agtcagggct aatattgtca aattaaaggc gtaatactgt gc 462

<210> 29985  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29985

agctntggcg gtcnttggga ttttctcaag cccaaccca tcaatgccta agacaaatcc 60  
 ttttgggggt tcatttaata atgtagcaaa caaagttacc aagctctaca gttacattct 120  
 ctgttcctag tggagagttg tttaaaacca gcattcttta atttctcaag ccncagtc 180  
 tcttcaccaa ccagacaac aatttcaggt gcattctctg gtggcttcaa tgctgtggca 240  
 gctgttcccg cacaagctcc aggtgggttt gggcagccag cacanattgg atcagggcaa 300  
 caggttcttg ggtcagttct cggtgggtnt ggacaatcaa gacagcttgg tagtgggttt 360  
 gctgctccta gtggtttcgg tgggtggattt gctggcggtg gttctcccag t 411

<210> 29986  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29986

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 aaccccatth atgctagtgt acttttattc agtcactttg gaaataatth atagaaatac 120  
 tgtgccatat atttttgaaa caaacattat aataaaactac ccacatactg actntaaaca 180  
 agtacttatac atttagttaa ttcatcctaa atacatggat atgtccaaaa tcttacttga 240  
 agcaccaatc tgacattata aacaatggcc gccatctaac actagcattc acttgtgact 300  
 ctagatattt ccagcaagtt cattgttcaa aatcttaatt aattgcgaga ttctgcccta 360  
 ttttgcatag ataaaaagta atataatata gattattntt tacttanaca agtagacatc 420  
 taggatttgc aatanagata gagcaactaa c 451

<210> 29987  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29987

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 tgaaagcaag ctttctaaga catttctaag acagtgcata cgtaagcact gtccttgaaa 120  
 gcaagctttc taagacgatg cttacgtagg cacagtcttg gaaagcaaac attctaagac 180  
 ggtggttacg taagcatgtc ttagaaagct tactttctga gacgggtacct acaaattacc 240  
 gacttcgaaa gttggctatt ttccaagacg atgtgttctt actcgtcgtt gaaaggtaac 300  
 actttcaatg gtgttagctt ctacgacggg cgacaatcgt ctttgtatat taatttggac 360  
 cgtcgtagaa aaaccatttt tcagtagtgg tttaaggaag ggtgaaactt aattccaact 420  
 cattcac 427

<210> 29988  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29988

tctactgagc acaaataaaaa acaaagcaaa atttattttc aatcctacaa aaagaacct 60  
 aaattgggga aaatatatac attttgtaaa agttttctat acaaaagtta gtcgtataag 120



acgactaaca acatccatca aatgaaaatt caaaaaccaa aaggaataaa caaatcaagc 180  
atgtcagagc aaatttatta ttatattcaa caagatcgta aacattggag agtaccgtta 240  
gtggtggtag tccaccggag tgggcagcag gggaataaag tgtccttcgc ttgtcatcat 300  
gcgttaggtc tcattcttctg gcaatcaatt ntgatttcaa cttgaatgtg aacaagcgcg 360  
tttatgtgtg tagtggtgag tgagagggga agtggaacat gtgagtttct ttntatttaa 420  
gtggaaaata ttctaagacg gttatatggg aaccatctc 459

<210> 29989  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29989

tccttacgca tctgtgcggt atttcacacc gcatatggtg cactctcagt acaatctgct 60  
ctgatgccgc atagttaagc cagccccgac acccgccaac acccgctgac gcgaaccctt 120  
tgcgggcgat gagaatatga ccantggtgt tgatgcacta ttacatgccc ctttgactta 180  
tgacttgatc gcg 193

<210> 29990  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29990

cgtaatccta tgaagctgtg cacaatcnga cgacntcagc tcggaccocgg gatcctcaga 60  
gtcacctgcg gcatgttgct ncatatttcg catataanga acataaagct tgggatcgat 120  
cgggcccccg gtaaaggagg ccatggaatg gctcaatttg gtatgggacc aatgaaactt 180  
ttttgattta agtcataaaa tgatgccaag gtctgttgat ccgctgaaac ttatgacatg 240  
gctgatcaca agaattataa atgaagctac cctggattca aaagaatcca agagttgcat 300  
gaagacacat caagtccttc tatacaatgc tttggcattt cagactctg tcaatagttt 360  
ctttgaatgg caggtaacct gngggtattc tatttattaa ataaatataa ttaattaaat 420

<210> 29991  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29991

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 aagaanatcc caaagaaaaa tgtccgattg gattttttttt attattttat ttaaagatat 120  
 ttttttgatt attatattat tattttgcct ctttttggtt ttaaactggg ttacagcatg 180  
 aaagatcggc cagattntat tctaacagaa attaaaagac gttaaaactc aagtgatcag 240  
 tggaaattta ttttattttt tgattaggcg agaaagtgc ttaaataat gactaaagca 300  
 caccanaagg tggtagagaa agcaaatgat atanaaataa aagcacgcga aacaagtggg 360  
 gaccactaag ggtacataga atgaattgaa tggttcgatt tcggaaactt accggttgaa 420  
 gaccaaaca cgacgaagaa cgatg 445

<210> 29992  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29992

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 ccttagcctt aggcttatgc aggatttcat tgataggagg agagagcaat gcttcaaactc 120  
 agaagaggag gatttaatat gtgggttaaa gttaaaactca agttcaaatg gaaacttggg 180  
 tccttaattt ataacatggt agcatgggtt agattccctt ttttgcagtg tcatgttgcg 240  
 gaatagtata ttactgtatt catatatggt ggttttgctg tgaggggtgg cttagttatt 300  
 acgcgctcaa tattttttga caagacgagc atanagctgc agtaggtaaa atctgccaaa 360  
 ttctccagca ccaacgacct agcttgctta attattaagc tgacattaa 409

<210> 29993  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29993

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agatttcctt ctctctttct tttgtataac tgtgtcatat ctttagatctc ctttcacttc 120

cttcaaacaa caaaatcatg ggtctgagag acattggtgc ttcactgcct cctgtgtttc 180

ggttttatcc gagt gatgag gaattggtct gccattacct ctacaaaaag atcgcaaattg 240

aggaagttct gaagggtacc ttggctgata ttgacctcca catatgcgaa ccttggcaac 300

ttccaggtaa atatataatc attctaaatt atatatatat atatatatat atatatatat 360

atatatatat atatatatat atatatatat atatattctt ataagctatt ctgaattata 420

caccttcta tagcttgatc tctgtggttn 450

<210> 29994

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29994

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aacaagcttt ccacatccac aatgcgcgca taaaccacc atccccgtt gccacacctc 120

aacggagctc acgtactccc acgtagccca tatectcgtt tctctcaaca ccgggtcccc 180

atcaatcttc tcaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240

tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc tcaacacatc aaccaaaatc 300

acagcttttc tcatgtaaag accacagtaa caattccttc gatccaattc gttaaccggt 360

ggatcgactc caaaatttta ctggaagtct atagtgtata agcctacatt ntgaccgttg 420

ggatatacta gcanacatcc agaacgcatt 450

<210> 29995

<211> 304

<212> DNA

<213> Glycine max

<400> 29995

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ccgccgaaca ggtgatctgg atcttgacct ccttcccttg cataaaaggg ttacagtaaa 120

taaacaacgc accattgttaa cataaatatg aagcctgaca aattcacctg tgcagcttaa 180  
tcttatatga tgatggaagt ttgtctgaaa aacataaatc ttaatcttga aaaactctgg 240  
caacaaacct ggaagaatca agagaagtat atggagaatg cctgcgctga gaatgcttgc 300  
tatg 304

<210> 29996  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29996

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tgtcctataa gcccaaagtg catcatctag ttttaattgcc caatctttcc tagatgcact 180  
aactgttttt tcaagaatta tttttaactc gctattggac aattctatgt ggccactagt 240  
ttgtgggtga tatgggggtg caagcttttg agtcacccat atttagccaa gaggccatca 300  
tacaacttat tacagaagtc agtgcctttg tcactaatga tngctcgagg tgtgctaaat 360  
ctggtgaann atattttctt tgaaactttt ttaccaccag agaatcatta atg 413

<210> 29997  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29997

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ggatgaaatt cttttatatt tccatgtttg taatacttcc tttccaatgg aaacgtcgga 120  
aatccaactt atgaagagaa aggggtggtc gtagaactgt cattatgcat atcatggtag 180  
ttacttatga taatttgagt gatgcaagtc gtcttttatg tatattgata gaatacaaac 240  
tctattgatg agaatggaag agtatagcag tcaggacaag acatcctcga acagtagata 300  
gaagaacaaa ctatagaata caatagaaga tataccagag attgacatat gtacattcaa 360  
accatctaga agtaatgctc tttgaagagg acaga 395

<210> 29998  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29998

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 caaaaatacc atgaagaaca taaaattagt cagcttaacc tcaaaagtac aaagaagggt 120  
 aagtcaattc ataaactatc attatgttgt aacacttaca atttggaatt catctaattt 180  
 gcctcctgaa caagattgga aaatgaaagt agcacaaaca gtaacgaata ggtcttgcta 240  
 ctatagtgga gagaggaaat tctgatggtc ccacaaatat aacaagatat aaatattaga 300  
 taaattactt gttccttaat ttatttactg tgataacaat tgagggtggg tgcattgagca 360  
 atggaagaga aggaactaat aatttcttaa ttatatgttg agcaaaatct attaaataaa 420  
 aatggacatc aaaagtaa 440

<210> 29999  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29999

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 tgtctaggca cagaaccagg cctcaccagg aacactgatc gataaaaatc gattctaaca 180  
 tcaaaagtac taaacctcac acctaanaac cttatctgtt ttgtgatctt gttgcctttg 240  
 atttcataga cactcttctt atcctcaact cctgtcatta gcaaacatat catggactcc 300  
 cattgcgtcc tactcaaaga atcgccgacg aanaccaccc ttttcccacg aagtcgttcg 360  
 agtattccac ggacatcaaa ccttggaatc tcacagttc 399

<210> 30000  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30000

tcttccataa accataattc cctcctctgc atcctgcaca cattcttgcc gacttttttt 60  
 caaactcata tatatgttgg gaaatcacac aattgcccc gtccttcagc tagctagctg 120  
 gatttggttaa tgtagtgccta gctgaattta accaagattg tgaattagca ataataagtt 180  
 aataactcat caaatctcta tcaacttacc ctatatacat aaacgtctct gtttttttaa 240  
 cttttaaaat aactccaagt caattcatat tcttttagact ttagtggtca cactcacaca 300  
 ctaccaatat aaataatttt acaatctttt gaaataaata atataaaaat catataggta 360  
 gtatatgatc tattcattta ttntttcttt atcatactta taaagaagcc atgcatcaca 420  
 nagtaacccc atggaagtgg cg 442

<210> 30001  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30001

agcttggcca gtagaangaa gactcgacac tatgtagtgt gggtttgaac cgggaatggc 60  
 tgcccattgg agaagaatga aatcaatgag gagttatgat g 101

<210> 30002  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30002

acgggtcatt ntgaccagag ctccaaagat ccataatcag cagaaaattc tgaaaggaga 60  
 aattacaaaa attgaagata aaagctggga aatcaagag taagatattt ttaaaggata 120  
 aatcagctca agaagaacat aattacttga attaattaga aatgctattt atttttaatt 180  
 tcttgtgact atctccttaa ttaaattctat ctacaattct aaaaataggg ggtagacat 240  
 tcggtgtaac ggtgtaaaag tccctatcaa ttcttagaat tatatttttag aattgcacct 300  
 actacatgtc tccattattc cattagacac tctagatttc attgtattat ttttataagt 360

gcaattcctt ccacctagga ggagaaatga tgaacctttt ttcgctgtaa ttctatcaat 420  
tcaatacttc atcttaagtt ctttattt 448

<210> 30003  
<211> 411  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30003

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ttgagacgaa acagttatgg ggaaatcagg tagctgcacc ttgaagtgtt ctccctcgat 120  
ccttgacaca aaggacatta ctgacccaac ccaggaaatg gggaatactc atccctgtgt 180  
ctggacttag tcgtagacta ctaataaata gctttcagcg gaaagtttct tttgatgaat 240  
aattggaacg ttataattct ctgaaatctg ttatattgga ccagagtgga caaatggga 300  
ttgtatgaca gtcacttctt gagacaacaa cctncanaga gaaagttggt tctggatata 360  
ctataaagtc acttctctct tcacctacac ttgaacatat gaaaatatcc t 411

<210> 30004  
<211> 453  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30004

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aaacacctca tatattcaaa acgagaagaa ctgtggaatt aaacatcatc cactctatgt 120  
cagactggta attccgtaat tgctgcaaat actaagttat tctctagca tccattgtcg 180  
atttcaagat tttctatca tagtgatcac attatctgat tgtagttatc attggtacac 240  
tntaacctca taacaaagtc aatcaataag agtcgatttc aatttgcaga tcagaaaagc 300  
taccctcaa attaggttat tgacttaagc agctgaatgc ataatacaaa ggaatttgta 360  
gaaactaaag caaatatat agatggataa tagaaaaagg aaaaggctgc acatctcaat 420  
tccttaccga ttcaccactg agattcatgt aag 453

<210> 30005

<211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30005

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 tctgcgatga cataatggcc atccaaactg ccgcaaaact atatatcaga tgttgaatca 120  
 tgcataagat atttcagcat gtctactata tatactatta tgagcattac aagagcaact 180  
 gaatgcatca cgcgtgcata tatacgtgtt caataacgtg tacgcctaac tggcgaagat 240  
 acatataggg cacttggcaa ctgaatcatg atgatacgag tacctcagac aaaacactcc 300  
 tcaacaggaa tatgaattca cagtgtcaat aatgctgttg gtcacgcaga taactcctct 360  
 tccctctccg ctctttcgtc cagcatatat attatcaaaa ggctaataatc attgat 416

<210> 30006  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30006

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 ctttgtgtaa ctttgatgga tgagagtctt gtgagacaaa cttcaaagtt caacttctct 120  
 cctcttttcc ttccttcaat gtcgtgctct gccgtctctc tttcttttct tccattgaag 180  
 caccttctcc aagcttctta tccaaggcat tctcttgggtg gcgaagctcc ttcttccatg 240  
 gcttattccc tagtggatgg cgctctgct cacctcttct cctttatctt ccgctgcac 300  
 tccatggtag aaaataacca ttgaaggacc tcaatgaagc tcaaagatcc agcctccata 360  
 gaagctctac aagtaag 377

<210> 30007  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30007

ctcaagcttg tagcatacgg actaaggttt gagagctttg ggcacccggt cctatgggtg 60



ctgacggagg agctggagtg gatgatgaag ggatgtcttt tgctctagcc ctttttcttg 120  
atgacatctg taactaaaaa gaactcaaaa ttcocttagac caaattaacg atgggcgctt 180  
agcgggatac aactcgctca gtgcgccttc agaaatataa catatcggct tagcgaaaca 240  
gcatgtgctt tagcctaatac aacgctgcaa cagatatgcg ctaagctcag caggggttgcg 300  
cttagcggca gcatgaaatt cagaaaattc actaagtatg ggggcttagc gagcaaggct 360  
cgttttagccc aatggctgcc acaatgaaat gagcttagcc cagataggct cggcttagcg 420  
catagctntc aacaaaaaat tggactaagt tacc 454

<210> 30008  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30008

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atcgaagctt gatgacgaga ggccagagag tgtttcttct ctctgccccg ctctctatga 120  
tggcaacgaa gagtcacgat acaagacaaa gtaagataga gggttgtcaa agcttatcca 180  
gttataacgt gccacgtag catacaaatt ggaaaacaca ggttttcaaa gacgggtttt 240  
taaaacgct ctcgtgaagc atattttaag ccgggtgtaa agtaccogtc tttacaaagc 300  
tataattatg cacaaaaatg tcaccgctnt atatactaca tcggttgctg tataaccgac 360  
gtataaacag tgacgtagaa aatctctttt ctagta 396

<210> 30009  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30009

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ttccctaata gatgggtgtct catctcacct ttctctcttt atcttacgtt acaacttcat 120  
ggctgaaaat caccattgaa ggacctcaact gaagctcaaa gattcagcct ccatagaatc 180  
ttctcaagca agcttccatc aaaaagtact gaacacaact tgctatgttc aaaacagaat 240

attgataaga ccattgataa aaaaaactcc ttatgaacta tagagtggaa gaagacctaa 300  
tatttcatac tttcatcgat ttggatgtga gtattttata ctgaacacta gatatcaact 360  
tgcaaagttt ggttcanagg tggataaaat aatcttcctc gaatgctcta acacatctaa 420  
agcatacaaa gtgtttaact caagaacttt 450

<210> 30010  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30010

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tagtatatat catttcatat gcatcatgca tcatcatgta ggagtaagaa gaaagtttct 120  
aaagttagaa aatttattca gtagttcgaa ctctgtgttt taattgatta cgcaagtgtt 180  
tgaagcttgc atagaagtgt ctcatattgg tttaatcgat tacatgctta tagtaatcga 240  
ttacacaatt cgctatgaga caatgattga tttntcaga agtctttgct ttaattgatt 300  
accacgtgat ataatagatt acttctctct taataagtgt ttcagaagcg atcaagaaca 360  
ctgtaatcaa ttacat 376

<210> 30011  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 30011

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gtatcaataa ctggagcccg tctaacaaca acataaggta gtgactccac ctcaatggac 120  
gaagtataac cacatttata ctccattagt tgcatacaag gctttaaccc caggtgccac 180  
agtagattgg atactccctt atcgacaaga ccagtgtatc ccaacctggt gaagatggat 240  
cttcatttga tgcttagtgg taccocaaga accactcggt cattgtctat gccagtagag 300  
ctaaagtaaa agaaaattat ccttcaagt gatcccttta ccaagactcc aagatttact 360  
tcacctaaa caaccatcaa aatggacctt tccgaggaga atcccactcc taaagtccaa 420

tggtccaagg aggtgcatat ttgtacacct

450

<210> 30012

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30012

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ctgagtcgaa ccgcaggcat gcttggcacn gaggtcaatg tcttatccgn ggangccatt 120  
cttagaagct attaaatggg ttcaggcttg agaattaact ttggccagaa ccactttggg 180  
gccattggcc catctgaaaa atgggtgggg gccgctgctg aatatcttaa attggccatg 240  
cctcaattcc ccttttggta cctaggggtg cctataagca ttaatctgag aaaaatatgg 300  
tgtgggagcc tatcattaaa acggctgagg ctaagttgaa caagtggaat caaggaacat 360  
ctctatggct ggaagaatca cccttatcaa tgctgtttaa cagcacttcc cttgtttact 420  
tgtctntac aggcctccctc agcagcatta atagataaat gctattcgag acacttttgt 480  
gg 482

<210> 30013

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30013

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taatgtaata ggggtggtaaa acagggttgaa ttcatacaac caaccacat aatcctccaa 120  
aaaatggcag agtatattag gtgattaaat tcatacatccc accttgata agttgtcaac 180  
ttaaggagtt ggaggctaaa gaactaactt gctcagtgtt atcaagacta taccgatcat 240  
gattcgggtca gggaactagg ttgatgggtc agtgggttgaa ctgaacgtgg gtcgctagcc 300  
gaactgggtat atattaaata tttaaattct atagtaaata tatcatatat aaattacttt 360  
ntttgtatct atatacataa attntgtttg tatcaagagc ggttggcaca attggttagcg 420  
gcttaagtcc ctaaaccaag tggtccaag 449

<210> 30014  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 30014

catcatacca cctccaggtg ctggaactac ttcacatggt tcttgatggg gcctatgcca 60  
 attaagagcc ttggatgaaa gaggtatgcc tatgtcttcc acaacagagt cacacttaga 120  
 agacggactc ctacctctcc gtattaaatc atgaaagggg agaagccaac tgtcaagctc 180  
 tttcacatct ttgagaagtc cctgttacac tttggcgaat caagatctaa tgaaaaagat 240  
 ggatcccaac agtgaagctg gactattcct gggatactct acctacagca gagcatatag 300  
 agtatacaat tccataacca tagcagcgat ggaatccatc aatgtgggtg ctgatgatct 360  
 gtctcca 367

<210> 30015  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30015

tagcnagann gttcctgcct catttccagn gagcatcgcg atcaaacaaa gagcgcggtat 60  
 atgacaatca ccgggtcaat aaacgaagag gacaacactg tttaccttaa agaccggata 120  
 tctgacataa tgggtatgca caatttcac cccacattttg caagaatctt acaataaatt 180  
 atttcatgga tcaaaccacg tagttatgtg ccgggtcaatc tccacatgat gcataattaa 240  
 gctattttaga ttacggagaa gagctgataa aaattgatta ctgatcacct c 291

<210> 30016  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 30016

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 cctactttcc cttccttccc tgcgctttgt atatctccaa cacaacaact tctcaggtgt 120  
 tattcctgat tctctgccac caccgcttat ctttcttgat ttgtcccata actcttttac 180

aggacaaatt ccagcctcaa tccaaaactt gacacatctg ataggattta acctccaaaa 240  
 caactctctc acaggaccta ttcctgatgt taaccttctt agccttaagg atttggtttt 300  
 gagcttcaac tacttgaatg gatctattcc ttcaggtctc cataagtttc ctgcctcctc 360  
 atttagaggg aatttgatgt tatgtggagc acctttgaaa caatgttctt cagtttcccc 420  
 taataccaca ttgtctccac caaca 445

<210> 30017  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30017

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 gtttccctta tcttgttttg aagctcacta caagccttaa gtgagaaacc atgatatcac 120  
 catatcctta aggaatattg gagctgtgga attgttatgg gaataagagt ggaggggttt 180  
 tgtttcattg gacaacttgt tatgatggct atgctacatg atgtattttg tgccatactt 240  
 gatgtacatt gtatatngga taaatgttgg acatgctgaa tgaaatgttg tgtctcaaag 300  
 gctatagagt 310

<210> 30018  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30018

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 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctggtcatgc atgcacctat gtggacgctc aagtgtcaaa cttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ctgggaaaat ttcacagcgt 300  
 tcacccttcg ggtgtacaca cacatttttt tcaaaactag ctatgatcag cgaatttttc 360  
 ttcaaagaaa agatggaagt catctctttt caaaagcatg ttggcttgct agctatacta 420

cttattat

430

<210> 30019  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 30019

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tagagcaaac ttgcggtctc gacagatcga agttgaagat gcaacatgcc cattctgcag 120  
agagggtgat gaaagcgcat gtcattctatt ctttcattgt cacaagataa ctccagtctg 180  
gtgggaatcc ttgtactgtg tagatctttc cggtgccttg ccaaatacacc caaggcatca 240  
ctttcttcaa tacatacaca gagtaacaga ggaaatgacg tctaccacat ggaaatgggtg 300  
gtggttgga ctgacatgga ccatttgga tcaaacatat aacattatct tctccaatgg 360  
tacattcaat gccatcgaga tactagatga tgcagctttc ttactatgga tgtgggctaac 420  
taac 424

<210> 30020  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 30020

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gtggtaccta gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtggtgtgct 120  
attgccc aaa accaagcttg atcaatcctg acccaactcg ggcatagtca gtcagtgaga 180  
acctgtgacg tacctaaaca ggcaagctcc tgacagtcaa ccaataaaaag aacaaagacc 240  
acaaagcaag gaggcttggtg tggtggctgg ccagctatgg atcttgagtg gtatctggaa 300  
tttggcctct ggtaatcgat taccaagggg gtgtaatcga ttacaaggct taaaaatgaa 360  
gacaggaagt taagatggcc tctggtaatc 390

<210> 30021  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 30021

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tccatatgct ggaaaatcgt taatagtaca aaacaccatg gcgcgtaacc tgaacatctg 120  
ttgcacattt gcatcccacg catctaccct ttcttcccac aattttttca aatcttcaat 180  
taacggacta agatacacat caatatcatt ctogggttgc cttggaccog cgatcatcat 240  
acacaggata atgtattttt gcaaaatata caaccagggg ggagggttgta aatcatcagt 300  
aaaacaggcc acaaactgtg gttgttgctt aagctgccat aaggattcat tccatcagaa 360  
gcaagagcaa gccttaagtt ccttggctcg tccccaaact ctggatacaa atgatcaatt 420  
gtcttccact gtggagaat 439

<210> 30022

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30022

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atggatggtg cctcctctca cctcttttcc ttigtcttcc gctgcatctc catgggtggaa 120  
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga atccctcttt 180  
gtaaacaacc aaaatttctc aattgattat ttttccttgt ttggtgattg ttgcaattct 240  
cttagtgtag tactagttag atgaaatagt gtgttaatct ctctctcca tttctctagt 300  
ttttattttc gacttgaatc ctttacgaac cctattctac aagttgttga actatattcc 360  
aaatttctac cttttgcaac tatggaacan taaaatatta aa 402

<210> 30023

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30023

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gtcacctcc ttgagatgag aagctagagc ttaactacac acaactccta taatagctaa 120

attcatccca tgccaaaata catgaaaata caaaaaaatt tctagtacaa ggactactca 180  
 aaatgtcctg aaatacaagg ctaaaatcct atactattag aatgaccaa atacaaggct 240  
 caaaagaaga aaaaatctat tctaataat tacaagaaga gtggaccaa cattgaccca 300  
 tgagctcaaa aatctatcct gaggttcatg agaaccacag agccttcttt agcagctcta 360  
 acccaatcat cttggagtct tctgtccaat aaccttggga gaaaggattg catcaacttc 420  
 tccctcgagc gttnttggat ctaattatgg tgtaagagt 459

<210> 30024  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30024

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 tgccttatat tctggcaaaa aaggtagata tgttgacaaa acatatgtan gaatacaagt 120  
 gggaaggga gtctcttttg tgtaagaatg aaaaagttag caccatatga gtgaggataa 180  
 aaatcataaa ctngagtttt aaagggttaa gttaaagtgt gaccgtcaat tttcttatgt 240  
 ggntgttcat agcttatagg taaaatctcc cctgtgattt atccccctca tngcataata 300  
 attagtataa gagtagatga tntaacttgg tgatcgactc agacgagtaa gatagtaacg 360  
 gaggatccta gtcctangga tcccttgtag canaagtctt tctggcgatg ggt 413

<210> 30025  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 30025

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 tgaacttggt gactaaatct tgaaatcatt ctttgggggt tttgtcgtca tcttagtcat 120  
 catcaaaact tcttgaatca acttgattca tcacatgaa gcttgcttct acacttaacc 180  
 cccaagacca aaaaccaact agcctgagag gctaggaaaa aagagccacc agtccctcta 240  
 aaagagcccc catatccttt agttccatca aagaagaata aggagcacta cttcaagtgt 300



ttattggaga tattcaaggg gttggagata accatgccat ttggggaagc cttacagcag 360  
atgctgctct acaccaaatt catgaaggac atcttcacca agaaggggaa gtacattgac 420  
agtгааagca ttgtggtggg aggcaactgc aatgcagtga t 461

<210> 30026  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30026

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gatagagcaa gaaatgaata gccaatggtt gatacatgga cggagatgag aaagatcatg 120  
aggaagcggg atgtgcccgc tagatactgc aaggacttga aattcactct ccgaaatcta 180  
acaccatgca acaaggaggt tgaggagtat ttcaaggaaa tggatgtgct gatgattcaa 240  
gcaaattattg actaagatga cgaggcaact atggctcgac ttattaatgg tttgactaat 300  
gatatacgtg atacttgtga gctgcatgag tatgttgaca tggatgatct gcttcacaaa 360  
gcaa 364

<210> 30027  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30027

actgtgctag agagnaaaac aaatgaccaa agtgaacata gttccatttc tagggcaaaa 60  
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caagtttaga ttgatgttat ggacttgtgt gaggagagag tttgcttcaa atttacctca 180  
ttctaaattt cacttctcaa gcctagaaaa tccattaaat tgagggggtt tggacaccta 240  
gattttgtgt tgctgtggtt tgaagcttgt ctttggttta tacatgattg atacatgatt 300  
tgagacttgt aggatttgat ttgggcaaga ttggatgagg ggaagtgtga ttgtcgaaat 360  
ctgcactctg tgcagattat tgctgtgaaa ttgtgcagca taatcttgca tgagtgcata 420  
caaatgcttg tgtgtgat 438

<210> 30028  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30028

ctcacaactt tccccaaaaa gaagtttaaa gatgtgggaa gccttcatcc accttgtggc 60  
 atggtataaa agtgtgccat cttgctaata caccaccata nagatagagt ctacacctct 120  
 ttgggttcta tgaagcccaa tgacaaagtc cataactaatg tctacccaag gtgcanatgg 180  
 aatgggtaag ggtgtgtata gcccatgagg catcaccccta gacttgggtc gtaaacaagc 240  
 cccactccta gtgcaatgct tatggacatc tttcttcata tggngccaat aaaacttctc 300  
 tttgagtaag acaaggggtct tgtctatc 328

<210> 30029  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30029

gctttgtcac aaagaagaag aagatgttca aagagattca aggcttgtaa atgattgtat 60  
 aagatctatt ggaaaagtat attgaaaagc aaatcaaagc cttgctttta tagactcttc 120  
 atgtctggcc aagaggacca tttagaagag ttataacttt tagaaaaact taaaaccaat 180  
 ttgaaaaagt caaaaacat ttgaagagtt acatcttttg atttatttag aaacaatcac 240  
 tggtaatcga ttaccaaata agtghtaatcg attacacaaa gcttttatgt gaaaggatga 300  
 gactcttcac atttgaattt gaatttcaac gttcaaaggc actggtaatc gattacacaa 360  
 acattgtaat caattacagc tnttttgaaa tcaattggaa cgttgtaaat tcatttgaaa 420  
 aaaatagtgt gtgcatgcta tntcattat 449

<210> 30030  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 30030

ggacacttga tactaagcta cacacacggt cactgcatgt ttttgcacag aatgaagaat 60  
 atttaaccaa caactttgtg caagaaatcc ctacacacac acacacacat attaataata 120  
 aattgaaacc aacttaatta aaacaattta aaacattctt tttaaaatac aagcctttca 180  
 aaggggaaag gctccattac cttttaacat cataataaaa cttgtacaaa taaataataa 240  
 attcacttcg gctcataaca aggcggtcta aaacttgata caatcaacat agaacctata 300  
 ccctaattgc acatcctatc ctatcagagc attgtattcc cgtgtgctct agcatcaggt 360  
 tcttcatagt catccaccta ttcatttgct cccactaaca ccacgttaga gatcatcaca 420  
 tgatccgaac acagattata cactgt 446

<210> 30031  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30031

tttgcnnga acttttattc atgaaaaagg gtctttgtta cgtgtgggtg agagatgtta 60  
 gaatgagtaa tattgataga agaggaggag atatgagata ctacctgctg actttacaac 120  
 aaaggccaac atgggtaaag cttattggat atatggcggg aaacatatag cagacaacag 180  
 cacgaataag gagttcagcc agaccatagc tatatagata aaaatctcaa aggaatatac 240  
 caagtggat ctaccaacc catgcaaagg aaccacgtgt ccagtgatta gcctaacgaa 300  
 ggtatcactc ttggataagc aacgagtgat c 331

<210> 30032  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30032

ngccagctgg tagtccatgg acatgccttg aagacgaagt gttttacaat gcttcaatca 60  
 tttggggagt agtgggacca cagagaatgt ttaccaagga tgggatttac cctgngatga 120  
 attggttttt cctgattggc ctacttgctc ctgttccagt gtggctgctt gctcgcanat 180  
 tcccaaacca taagtggatt gagctcatca atatgcctt aatcattgct ggtggtggtg 240

gcatcccacc agccagatcc gtcaactaca taacttgagg atttgtggga atcttcttca 300  
 atttctacgt ttacagcaag ttcaaggcat ggtgggctag acacacttac atcctctcag 360  
 ctgcttttaga tgctgggtgtt gctttcatgg gtgtcattct ctattgtgcc cttcagaatt 420  
 atggtgtttt tgggtccaata tg 442

<210> 30033  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30033

ttttgcttat agattccttt gctttttttg ctagacttga agctataaga atcatgcttt 60  
 cctttgctac tcataaaaat ataaagtatt ttcaaattgga cgttaaaagt gctttcttaa 120  
 atggctttat tgaagaggaa atatatgtca aacaacctct tgggtttgaa gatcatactc 180  
 ttccagacca tgctttcaaa cttaaaaaag ctntgtatgg tctaaaacag gaaccacatn 240  
 gctgggtgtga cagactgagt tcatttctct tagaaatggg tntattaaag tcaaagtggga 300  
 tacaactctt tctaaatgag aaagtggcan agatttcatt atagttcaaa tntatgttga 360  
 tgatagtatn tttgaagcta ctaatgaatc tctt 394

<210> 30034  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 30034

tgaatgaata taagacacat cttcttcaat cttgggtgatt cttgactcca tctaattggaa 60  
 gtgcatgtcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120  
 atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180  
 accaatatgt cgagcaccct ttttcaacca agagccatca tgctcttttt gataacaaaa 240  
 ggatgcaatg actgaagcgc ctataaggaa ggatctcttg attggaacat aggggttcaga 300  
 atcaagaggg atgttaaagt gttgaaggaa aagagtgact agatgaggat atggcaaagg 360  
 agcattcaat cgcaatgcct tatgcctgag atatctaaca agaagtgcc aatcaatttg 420  
 tagaccttta tgataggccc acataacaat g 451

<210> 30035  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30035

tttgctaata acttataaca aatcaacgnt atatccttgt caccgaaaat attttatatt 60  
 tttttctcgt atccacattt actcgagatt atttcttatt ttcataatatt ctaatatatt 120  
 caaagaatgt gccactcata aagtaacatt ccaaattaga gataggcatt catctacttt 180  
 ctatgggaac attagtaaaa cacatganat tatntactat gtgttttaa atgtgccgttt 240  
 ggcatgacat gaacaagggt cttcatatca cgtaaaaagt agataaataa aagtaaacia 300  
 ataagtatgg catatcccat tagtctaaaa gcaagggtta tatattcaaa ggtttatatc 360  
 ccattatttc atatgttcac at 382

<210> 30036  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30036

tggttcgagg tacttaaccg ttgaagatcg aagaacgatg aagaacgaat gaagaacgtc 60  
 gaagaacggt tgaaaccttt gcgaaattct tcacagaaaa cgttacggaa acgtttcgga 120  
 agcgcctcgg cttagatttt cttcacggaa acgatttttc caagcaaatt cgaaagagag 180  
 agaagtgcc aaggggctga acattttctt cttcacttcc tcccctatatt atagcaaaat 240  
 aggggaggtg gttgccgccc agctcgccca ggcgagccag gttgcttcct ccagaagcaa 300  
 cagccttctg gaggaatatt ctagagggcc caagtgggcc tgggtgctat ttccaccccc 360  
 atttttacta agtacacccc cctctgctnt tttggtgatt cttnttccgt anagtcacgg 420  
 aaacttacga attccgtaac gatact 446

<210> 30037  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30037

```

aaaagttggg ccttggtgan cctgagngct tttcggagat acanggcgaa gttgagcacg   60
ggacccgtgg atactacaga gccgaccttc ttgcatgcga gctttgacat tggctaggan  120
gcagatgagg catacaacga aactctgcgt atgagagtta aacaagagtg aatcataagt  180
acgcatgcc aactgagtaat gatgaaaatg agaatcgaga tgctgaagat gatgttggat  240
tggaagtatc aactgtggac ttggaacgta cagtgcgatg aatggctctt actctatgga  300
gttagtatat gtcaaggact ggacaaaggc taattttcat gaccgaaata accctgtgaa  360
acatgatgtt ctatctatat actgtttaat acgaacacag tgtgtgctat agatgtgata  420
tcgatgcaaa gatgtgctag cttctattaa tgtgacaact tcttatagct acccatgcta  480
tgataatatc atatacggat aataacgtg                                     509

```

<210> 30038  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 30038

```

tatgaggtcg gttatatatt ccttctttca ccctatttga ggtctctttt tcctttcata   60
agagaaaaat tgtaaatttt tagtctctca tttatatata taacacaatt tcatacaaga  120
gaaattaaag agacattgat ttatttctga aggattggaa gctaacattg tcttgtacta  180
aaactatatt tgacaccttt tattgcatga tcgctttctc taatatagaa tctaagttag  240
tgtattgggt tagtgcaggt totgagtgat ccccagaaga gagcaatcta tgatgaatac  300
ggagaagaag ggcttaaagg gcaagtgcc cctccagatg ccggtggcca tacattcttc  360
caaactggag atgtgccaac aacgttcagg ttcaatccaa gaaacgcaga tgacatcttt  420
gctgagtt                                     428

```

<210> 30039  
 <211> 133  
 <212> DNA  
 <213> Glycine max

<400> 30039

ttcgagcgtc tccatatatt atgcgcctta atcggaagat cgagtgaaat tgtttgacca 60  
 tttgaatgct ccacagcctt ctatgggtcaa attcgagcat cttgaatttt atgcacctta 120  
 atcggacctc cca 133

<210> 30040  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30040

ttgaaaagtg ttgtttntca ccttctcgct acgcctttct actggcttag cgagcatccg 60  
 ctaagcgcaa cactcatggg cttagtgcaa ggaagactct cgacgaagat gagttgcaca 120  
 ggttcgcaaa gcgcactgtt tcatctcact aagcacaccg cttcagtcca tacgctaagc 180  
 gagaaaggca tgtgctaagc caaaattcac taatgtgcgc ttagcgggtcc attattgtgc 240  
 taagcgcgatg agcactatca aggctaccta tataagccat aaatcatgat ttgtgaacgg 300  
 agtttgggct gtgattcaga gcttttagatg gttagagatg ttatagagag aaagtctcag 360  
 ttctagagag ttttgagaga ttttgttggg gatgatct 398

<210> 30041  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30041

agcttgtttg ttacaatgac attgactggg ctagagatga agatgatcag aaaagtacta 60  
 gtggatatat gtttttcatg ggaaatacaa ccttcacttg gatgtcaaaa aagtagtcga 120  
 tatatagtca ttcttttgac ttgtaagcca aaatacctag cagttgcttc atgcatttgt 180  
 catgcaatat ggctcaagaa tttgttaaaa gagttgggca tgtcacaaga agagttacca 240  
 agatctttgt cgataattaa taagtcagtc attgctctag caaagaatcc aatgttccat 300  
 gatcgaagca nacatattga taccggttac cactacataa aggagagcac aacaagaaag 360  
 gatgtacatg cangatatgt gaagtctcaa gaccaagtag ttgacatc 408

<210> 30042

<211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30042

gggacgaggg caacccaaca ctatggctac attgcacacg agggaacgcc ttaacgtccc 60  
 cgccaccact aggggaagaa tcatgggtgac cagaacaagt tcccaaactg gagaagtagt 120  
 ggaaggttgc accctcccgc ggaggtgaga agtgcctcca ccagcacgac acaagaccgt 180  
 cacactcttt gaggaagcgg acttgctatc gaaagcccca tggcgagtct cctccganga 240  
 ggaaccgccg atggagacga cccttagagt cactatc 277

<210> 30043  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30043

agccccggttt atgcttcac cccnaatttg nnanngacgg ngcgngnnnn aagctatatt 60  
 acaannanaa ntaanatgnn tttccgaagn gggacataat tgggcgaagg ttgcctgttt 120  
 ttttctctct gccccggcgc cacatgccac atgcagggat ggtgggatca gtatttgaga 180  
 gattactatt aggagctgaa tttgagagac atgtgccagg aaaaagaggg agaaggataa 240  
 agataaacgg atagaaacct tataatgaat aaagtctaag aaatgttaca agtttgaatg 300  
 tgaccgtcta atgggtatga taaaaatctc aaaagttcga atgtgattgt ctaatggcga 360  
 tgatattcat attttctact aaaaaatctc atanaattta tcagaattta tttaaaaaaa 420  
 cattaaaatt gaaaactttt gatatcaaga gacttttata aatataaaaa tctaattaat 480

<210> 30044  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30044

agcttctcgt ttatgagaac aaatntcaat atcattcatc ataattggct cccaccaatt 60  
 tttcagattc aagtttacca cagaatgaca atgaagacat actgttaatt aataacacat 120



ccaaagcggc gacatattat cttgcaacca cttaagctta aagtagacct actattgttc 180  
tcctttggca gaacaacacc canatattgt tcatacattt cctcccaatc ataataagtt 240  
gcaccagtaa ttggcctatc gtccaccctt aaaccaagct gtagtggttac atcctctagt 300  
gtaattatac attatccaac aagaaaatga taagtgtgcg tctctgggtca acaagtgcag 360  
gcactagatg atgatcaatc ttgaagtgtc ataattttgt cacat 405

<210> 30045  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 30045

agataaatag taaaaaagtg ttttaaaaca ttgagtagca caagaatttt tcacaaaatc 60  
ttttaccaa gagttctact ctctggtaat cgattaccag aaggtagtaa tcgattacca 120  
atagccaaca ttgtttttaa aactgattta caaagttgta atcgattacc atgagcatgt 180  
aatcgattac caatatttta aagcgtaga tatcaaagt cagaagtcac agatagtgat 240  
agaacatttt caaaacagtt taaacttggt taagcgatta cacaatactt gtaatcgaat 300  
accagt 306

<210> 30046  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30046

agctttcata ttgaaaaaa aaataactaac ttttggctct tggaattttt cttctggctt 60  
tctaagatat gaactggtaa gttgttctaa ataataaagg atatggtctc agattatttt 120  
gcgcagttga aattcttgca tactatccag ttgcaatctt gttagcaagt agcaactaca 180  
atgacactta tanacgatgg aaaaatctat ntgactactg ntgtgcatcc ctttctaaag 240  
aattgtctgt gcctgtcttt ttgtcctgct tgtaagctgg acanaatgag gaatattctg 300  
aattcattat ggatctactt cgtaagtcct taactgactn nttacttatt tctttgctgc 360  
agggagatca attgcaagt acagtaaata aattaacatc aac 403

<210> 30047  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 30047

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aggaacggcg gataagaata gagagagaga ttatgtttct gggaagtgac tttattctag   60
tagccgcgtg acatgagcct tcgcattcgc ccagaataca ggaacaaact tggaatgggc  120
accaggcgca accacgtaag cccaattctg ttcaaacaat ctagttccgg gtgttactag  180
gagcaccag aatTTTTTtC tggggcaccC aaaaacatag tggaagaata aaacaatgag  240
taaatagacg ttataaataa atagtattgc tatatataaa actaatcccg tgtttaagaa  300
cgcctcaaga atttcgagcg aacctagcca gcaaaagttg atggaatttg gactcaaaag  360
aatggcggtg caattctaga ctatagttgc ttttgcaaa actaacgcta aacaatctat  420
tggtga                                           426
  
```

<210> 30048  
 <211> 55  
 <212> DNA  
 <213> Glycine max

<400> 30048

```

agctTTTTtC atcttatcat tatcaaacag atggtcagac tgaacgaacc attca       55
  
```

<210> 30049  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30049

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tatcatgatc tggaaaagta aaacaatgtc agttatatag tttagataat catgattata   60
tcagtaattt cattgcctcc aatatcatat aaagcattta gtataatata taacaatata  120
tggtaacata tgagagttaa aagcttacia acatacgctt acaagggtcat ttcatatata  180
acaaaattga agataacatt caatggttca tcatcaaata ttgcatcata ttaatatata  240
cattttgaat aggcaacact tgcctctcag tcaaaatgca ttttcagcaa ttggatgtta  300
tctctaaaaa agttaagatt gtatcagact tagtagcaca ttcagcagca tgacaaaaga  360
  
```

cacaggataa ataatgcacc atangatcaa taccaaactg gaagagataa cttctcagtt 420  
 ttaaagggtga acactattat aat 443

<210> 30050  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 30050

agtttagtaat gagtgggaact tgatttatgg tttagctcaa tttgacttaa aagaatgact 60  
 tagttcaaag cttgttaciaa gtttaatatc aactttttatt ttttatttga attcagtttg 120  
 atttaaactt gtgagtaatt caatttagct cttttgttgg attggtttaa aactataatt 180  
 attttaattc ttttatttat ttatttattt tgtgaaataa aattaattaa caaactaatt 240  
 atgtcaattt actattttat atcaatttag tcatattaac acatgtaaaa ttagaggatg 300  
 aaattcaggg agaaatgaca ctggctattg gcgtgaagtg ggcgaaacag ccgaaaacct 360  
 gaactgggac atttttgcac cacaactagt acttaagtag tctttctg 408

<210> 30051  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30051

agtctttatt tttatttctt gacnatcttt aatgagctgg tgtaacagaa aatgataaaa 60  
 taatcatgta aggtccgttt tatacacaca tacatctagc gaattctaatt ttacatgtag 120  
 cggtttctcg acaaaatgca gatatgcttc tgataattgt tttgggggtgc attgacaccc 180  
 atcaaaatgg gacaacaatt gattgggtctg tcaaccatgc gcaatcaatt tattatcaga 240  
 taggttgcaa cgcattgatt ttgaatcctt gatcgttacc acacacgtgc cctatatgag 300  
 caactatcgt agagaccaag aactctttcc ttgaaataag ttccctcttt cctttctgta 360  
 gtgctttgct tgatcttcca ctcaagggtga taaaaatctg actc 404

<210> 30052  
 <211> 419  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30052

gaccgctntc agttttatac ctagtaaadc catagatang tttatcaaac cagtatacaa 60  
atggggacag aaaatgaaaa aaggtaagtg agctcaaact caaagaatgc ataatatatc 120  
atttcaaaat cagaaccact gaaccaccaa acattataaa agaatttgcc agatcaaaca 180  
tctagaatgg gtagacctta caagaacaat tagacgagaa gaaagtttca tgcagaatta 240  
atgtacaaaa tgcaaaaaca aaagacaagc cttcaaaacc tatggtcaga gacactacgc 300  
ttattggatg ttattcatga acttcagtat ttgttattag aatcatatag tttcaggagt 360  
cttattaata tgctatgtta tcattgttat gtagcagaat tgtacaagac ctatcatat 419

<210> 30053

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30053

ttactcgga ttggtaacta catttttttaa gctcgaagtt ttactgaatt ttgtagacat 60  
ttggaccaca attataaaaa aagaaccaag cgaattggat taaagaaaaa aactaaaaaa 120  
atcacacaag ttggatgaaa aatcagtgct caggaaaata aaagtgaaaa ggaagtgtgc 180  
ttgttggttt aactcaaaac tttttctata attgggtgcct actttatacc actcctagtt 240  
ctgaaacttc aattgaaaat aattatgaaa acaagtgcc aaaaatagagg tttcttgagt 300  
ctttttttcg tttctcttta ttaagntttc tactctactc tatagccttt ctaggtttgt 360  
ctttgag 367

<210> 30054

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30054

ctaattatat cctataaant tgctatcact tactacttac atacattcga agtacaccat 60  
acaaatTTTT gttgtttcac tcctatTTat ttatatgcat attggaaagc taattacatc 120

ctgcacatat ttgcattcaa aaagggcatt ccacactatc atacattcat ttaagaaaac 180  
aattactcat actttgctag gaatttcatg ctcccttatat ttacctatgt atacacacta 240  
ttgcaaggtg ttttccacgc tacctctatg taaagtatca aacatggggc agcccaaatt 300  
cgagcaaaaa ctctcacaag caaatcctaa ttttcatggt tttctaattc taaaaccaa 360  
ttntggattc ctagccataa gcatgtttcc ttgcattgaa gctacaagtt tgggttccta 420  
agcttgg 427

<210> 30055  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30055

gtcatgcatg ttatatacat gaaattgatt agactattat tttattcgac cggnaaaata 60  
tcatggacat tgaaaacatg gccacaaaag tcacctccat gaaaagttaa aagaatttaa 120  
ctaattccta taactaatat attttaagag taaattaaat cataaatctg caaattaaaa 180  
taaaaaactc aaaaaaagaa aacaactatt aaaaaaatac aatacataaa tatagaatta 240  
aaaaaataaa ttcataaaac aaaaaaatgg cacattgaga aattgggttg cgacatattg 300  
tgtagcaaaa aaaattaaag ctggacagtg agaaatcgga ttaggggcac cggattttca 360  
ttggcaataa tgatttgtat cacttttgat agataatttg gaacttgtat tatttgt 417

<210> 30056  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30056

tgtatttctt gaggaataac tgtaatactt aattgggtgc acctacatgt aacaacatca 60  
ctttccccgt caacaaacat gatcaaatca acaactatta tttctacaca ttaggggtgaa 120  
aaagcactca atatttttgc tataacataa caaaagtgtt acaacaagag taaagtgatt 180  
ccaacttcaa cttttttttt tcaattccct catttcattt ggggtgcctaa ggtatctagc 240  
ctagagtcag aaactaattt ctcaagacac aaagatcgat tcaagggagc tgaactcacc 300

caacatanaa acataagaga ctcaatcact tcctaatttc catccnctaa taaaacatga 360  
 tttgtggaac aagtgaagta aaataactaa nagaattgaa aagcacctgc atgttgact 419

<210> 30057  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
 <400> 30057

tgaacagatt tgataggagc tagggagttt accctctgat tcatataaaa aaaaaagaca 60  
 tcacatcatg cttaccggtt taataggcat ggaatagaca agtctctaag ttaacacggg 120  
 aagtgcgagg catgaagcgc caatcgcgag ggacaagtaa cccataacca tgaactgaac 180  
 atgaagaagc ctctaagtt aaaaataaag cgcaagacgg tgggataaat tgggattagt 240  
 acagcgttgt aggcctaaat aaaacgaaaa gcggaa 276

<210> 30058  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30058

ctgctactta tatatcgaga cgatcaaaat tgaacaacgg aagctctcgt gaaattaaaa 60  
 tggtcataag ttttaactcg gatgtccgat tcaggagctt cacatatcga gatgcacgaa 120  
 attgaacaat ggaagctcta gagaaattct aatggtcata aattttcaca cggaggctct 180  
 attcaggcgc ttaatatatc cagacgctcg aaattgaaca atggaagctc tcgagatatt 240  
 caaatggtca taacttttca ctcggatgct cgattcaggt gtatcacata tccagacgct 300  
 cggaatngat tagcggaagc tctagagaaa ttcacatggt cataactttt cacacggatg 360  
 tcctattcaa gcgcttaata tatcgagacg ctcgaaattt gacaac 406

<210> 30059  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30059

acaagtttct tcacaaataa ctatcatggt gtctgtttac tagcaagact acccatcata 60  
tctcccaaaa ccccatacc acgaaattta agagagaaag aagtccaccc aaacctgaat 120  
tttcgaagtc cactcgtag ccacgcactt cagcaccg aaatgccct ctttcgcga 180  
tttggggcag aaatgatgga caaagggtga agctttgctt ggagcttcaa tggagaatga 240  
agaagaagaa aatggcaacg tgaggagag agagagctgt ctganaaagt gtggtgctga 300  
gtgaagagag agaacagctc tctgggttta aataaaaggg tttctctttt ctattatttt 360  
attaagcatt gcacatgtct catttgagt 389

<210> 30060  
<211> 343  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30060

tagctttgtt tactttattn ttggtagag gctttacata ttatatacta agatatctgg 60  
ttgaatcttc catttcttat ctatggtctt gaacacttac gaagtctacc agtgggtatgc 120  
taatcatgtg tatgcaattg actagatgaa actagaagga atttggtaga ttggcctaaa 180  
cgatttaaca ttatttgtgg cattgctcga ggacttcttt atctncatga agattctaga 240  
atgaggattg tacatagaga tctgaaaacc tagcacattt tactagatga aaatttcaat 300  
ccanaaatat cagactttgg cttagcacga gcattcttgg gag 343

<210> 30061  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 30061

aaagtctcac gattgtcacg tgetcatgca ttatttggtta gtcgtggcta tacgagacat 60  
cttgcgaaac aaagtcaggt tagcgataac tgcgttggtc tttttcttcc atgctatatg 120  
tagcaaagtc cttgatctag tcaagtttga tgagttggaa aatgaggccg caattatact 180  
gtgccagttg gagatgtatt tcccccccg ctttctttga catcatgatt cacttgatta 240  
tgcactctgg cagagaaatc aaatgttgtg gtcctgttta tctacggtgg atgtaccag 300

ttgagcgata catgaagatc ttacaagggt atacaaagaa tctatatcgt ccagaagcat 360  
ctattgttga gaggtacatt gcagaagaag ccacttgaat tttgtcataa tacttacag 419

<210> 30062  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30062

agcttatatt cctattgtcc tatagaggca tttcattcct tctggagagt ccactagctc 60  
tatgatagtt gtcacacctc tgaacatatt cataagcatc cttgtgcaag gtaagccaat 120  
aaaaactaga ttgaaggacc ttggcagtag tcctctctcc atcgtaattg ccttcacaat 180  
gtgaactatg gcaatgccac aatatgcttc ttgcctcccc ctaagttaca catcttctca 240  
agagattatc tgctccaatt ttataaagat tgggatcccc ccacacaaaa tatttagtgt 300  
ccttgacaaa cttctttttt tggaccaagt gagatcatca ngaaatgcac caattgcttt 360  
gacactagtc atctcagcag accatggcct tctacaatg 399

<210> 30063  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30063

tggctcttcgc cagtgaaagg atcaatgtgg ttcttattta tgcaaatang atcatcctac 60  
tatgacgact gagaaaactg gggcaaataa agaggggtgag gatgaggcac aaacccatgc 120  
tgtgactacc attcctgtac ggccaagttt cccaccaacc caacaatata tttactcagc 180  
caataacaaa ctttctcctt acccaccacc cagttatcca caaaggatcat ccctaaatat 240  
accacaaagt atgtctaccg cacttccaat gacgaacacc acctttatca caaaccagaa 300  
tacaccaacc aagaagcgaa ctttgcagcg agaaagcctg gaggaatcac cccaattcca 360  
gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc cataacccta 420  
tccaacgtta tca 433

<210> 30064



<211> 251  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30064

atggttaata atctgcataa aggtgtgaat gtgtgtggta tgtttggttt agttcaattc 60  
 ttggtgcatg gatngagatc ccacattgac tatagatatg gctaaagtag aaattataaa 120  
 ggctggggaa atcctcacct catgaagcta gctttggagt ttgagtcaag cttatctcan 180  
 attcaagatg gtatcagagc ctatcataaa ttcgatattg ggccaccctc aactgtccaa 240  
 aaatctacat g 251

<210> 30065  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30065

aacctcgtgt aggcgcttca cgcncgccat gcgctttttt cgcgtncttt gcgcgcgcga 60  
 gctcgagcgc ttctccatc ggatctggcg cggccgggtg cagatctggt ttaactgtca 120  
 ccggattcac caccgcataa cggcgccggg aagttgcgaa atgcaaagt aaatgcgaat 180  
 gcgggattta aaaggagtga gagggaggtt cagtggagt tagtgagaga gagagattgt 240  
 gaatttagtt agcggaggcg tcaaaatgag gggagaggtt gcggtacgag agagaaagag 300  
 aatgatgacg cggaatgaa atgaaatgga aaatgatttg aaaactatgt tttatgctat 360  
 ggggctgccg tgcttgaaaa ttaaccacta ttagtattga gtgatagttt gttgggttgg 420  
 gttgctttta a 431

<210> 30066  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30066

cgggcccgtt cctatgccat gaatatctag gcaattcagc tcgtaccggg ggatctctaa 60  
 agtcaacctg anggcttgca gcttttttac attattgtga gagtgggtga cagaaatcaa 120

aagcttattt tggaggcccc ttttttaaaa aataaaacat ttaaaattga aaatgatggg 180  
ataaaataaa aatggttttg cactggaagt aaacgtggag aatgggtatt ggattactga 240  
tttggccctt taaattttta aaatctgaat cagcttaact caagaaaaat ggtggtgggt 300  
ttgcctcaga tcaagccttc tagtgaagat gtgatggttg ttacagtgtg agcatcaaga 360  
gcactttcaa acaaagacc aatcaggcaa aagagaactt gaatgattac tctgtgtgtg 420  
tgccctatgc gactgatctc tgggtgaaca gatctcatat ctttatgatg attgacan 478

<210> 30067  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30067

ctacaagaga agatacaaat tctaagaaat tctttaattg tgtgatgaga atatgttata 60  
ccatgaactt attttctaaa atttttgcaa ttggtataat tgaagccttg cttgattcct 120  
gtttttcttt ttcttttctc atttatgttt tgcgaaggca tttttttctc atttattatt 180  
ttctgtcatt gcattgagat cgtaggcata gattcaatct tttcctctaa gtacacacat 240  
tctaaaacag atttttaatc aactgatgag aacagggtat accatgcac attattgtta 300  
gaattcatgg ttcagttcaa gatagaagag agaattgaga aaaaaaaaat tatatgtata 360  
ttaatattct taaatgagta cccaacaagt atataccana gattccctat gagatgatga 420  
ttgaaaagaa gtctag 436

<210> 30068  
<211> 117  
<212> DNA  
<213> Glycine max

<400> 30068

tgattctgat ataataatga aaacttgaat agtgatgatg attcttgtac caccacagct 60  
tttactagga aatcctccaa agtcatttcc tcaagtgttt gcttgctttt gagcagt 117

<210> 30069  
<211> 444  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30069

aatagattta gttagtcact ctacttgcaa aagagagatt ttctagcttt ctaggaactt 60  
agacgttgat gaactttggt taagataaat tgaaaagtat tcctagaagc tatcttatga 120  
aagatagaca ctccaaggta ctttccaaga tccttagtcc aagcaatacc catttctcca 180  
cttagttgat ccttgacttg agtctccaca tttttggaaa agaacattca agatttctcc 240  
aagctaattt tctgcttaga actcttgcaa aataaattca aaatattctt gatagaatgg 300  
acctgctcca ctaaagcctt cataaataaa ataaggctgt atgcaaaggc taagtgagat 360  
ataagtggtac catgtctaaa aagacgaata gggcaccaca ctctntggtc cacaacaaca 420  
gagatcaatt gaaacatatg ttca 444

<210> 30070

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30070

agctttgatt tacacagagg gtttcagga caaagcttcg atttacatat tgaatttcat 60  
ccaatttttt gacaagtcac tggtacttcc atgaatattg atattgtatc atgcttaatt 120  
atatgcattt gattattctg atcatttgtt gttgtgtgat tatttcttcc atgcaggtag 180  
atgattccta tttgttgtga gagtgaaatg atgggcagca tcaccaactg aggtgagttt 240  
atatttcctt ttttttgtct ttatctttgt tagttcggtt tatagttttt attttatatg 300  
tttgagttct acatgtgtaa aaaatagaaa tagacaggtc tgggtgattgc ttangaattc 360  
cttggtgttt catggcattc ctntgaacc tcanaagggtg cttatga 407

<210> 30071

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30071

gctgcaccat tgacagatnt acttagtaaa gaagcattct tgttgtctcc agaggcagag 60

acaacatttg ttcaattgca gaaagtcacg acttcagctc cagtgttagc tcttcctaata 120  
 ttccagctgc ccttcattct ggaaactaat gcttccgaca ctggtattgg agtagtatta 180  
 catcagaatg gccatccaat agcatttttt tccaagaaac ttgcacctag agtgcaaaag 240  
 aaatctgact aatttagaga gatgttagca attgttgaag ctatagctaa gttcagacac 300  
 tacttgctgg gacacaaatt tattatcaaa actgatcaca attagtcaga tgatgatgtt 360  
 gatggatgga acaaccgcta cagacacctg aacaacaaca gtggttacac aggttttttg 420  
 gatatg 426

<210> 30072  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30072

agtctttttg aaaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
 ctaagctcat ctncctgaga tgagaagctg gaacttagct acacaccccc tataatagct 120  
 aagctcacc ccatgacaaa atacatgaaa atacaaagaa nagtccctac tacaaagact 180  
 actcaaaatg cctcgaaata caaggctaaa accctatact actggaatgg ccaaaatata 240  
 aggcctaaac gaaggaaaaa tacctattct aatatttaca aagataagcg ggctcact 300  
 tagcccagg gctcanaatc taccctaagg ctcatgagaa ccctanggcc ttccttgga 360  
 tctctggccc aatctacctg ga 382

<210> 30073  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30073

gggctganaa tatataacaa caccaaggat ctacttttat ctctcctctn tcgttttttag 60  
 ttgtaggctt ctcttcttct tttagacact cttagccaga agtagcaaga aaaaaatatt 120  
 tgttttgtaa tcaaagtttt gattagtggg tgtggaagta atgctttcca agattatttt 180  
 gatgatgcc aaaaactcaag tcaagaatca agagtcaagc aagtttcaag aatcaaagag 240

tcgttcaatc aaagcaagtt tcaagaatca tagagtcggt caatcaagat tcaagattca 300  
agattgaagt aaagaatcaa gagaagactc aattaagata agtattaaaa gagtttttca 360  
aatattgaa tagcacaatt ttgttcaaga gaatctttca aagaacaatc ttttaciaag 420  
agttgtactc tctgataatc gattac 446

<210> 30074  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30074

agcttgtatc attngactta tatgctctag cttgagcgag tgttggaatt agtagttaa 60  
tgcctttcag atacaggtac actattcttg tacctagaat ataccgtgca tgtactaagg 120  
aactaaaatc atcattaatc tccttataaa cacaaaacag tgtatataaa tactagatca 180  
gctgaataac tcattcaagc tattagaaaa gtcattctcg taatccctaa naattcctca 240  
tgtaataaca ttcaaccttc caacaaatgc atatggagga tttcacattc tcaattcatt 300  
gatcttcatt caagtgtctac taaatctcaa aatatantaa atntatgtct ttgggtgcatc 360  
tatcattgct taatcanggg gttatgc 387

<210> 30075  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 30075

caagatgagc ggtcatcctt gcagcccata attcgttctt ctcaccatca aaaattgggtg 60  
gtgaacctgt tgtgtatgat gtttctccct ccattgattt ctctcaactc acagatccct 120  
taaagataag agctctgata ccaatttggt gtttttggtt aataacggta agcagaaata 180  
ttaaagaatg aaagggagcg taaagaaaga aattgagact acaaaggctt gttttattct 240  
gatatgaagc aacgtattta aaaacatgaa aggatagtaa cggctaacaa aaagataaca 300  
ccactaacag atcatgccta gaaaatagga tcaaaactaa tttatcctat cagtcaacat 360  
gactgttatt tttccttaaa aatagcacia gaatcttatc tactatagtt tgtagacag 420

tttcaacagt cacatcttaa taaatta

447

<210> 30076  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 30076

gtggtaatca gagcacaaga gcttcaagta ggtgcttctt aaaccctcat taattttttt 60  
ttccttacct tctcttccat tgttgtttct tcatttttct ccacgtatct cctcacatgt 120  
cttgttctaa atgttggttaa catgaatctt tatagtttcc accgattaaa cttgctatag 180  
aaactaaatt tgatttttcta tggttcatat ctcttggtct tggctcttgaa ccatgaattg 240  
tggtgagttt atgttccttt gagctttgtc ttgttatttt tgggtggctga aacctaaacc 300  
ataaaattct tacaaaaata ttaaag 326

<210> 30077  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30077

ttagaggana ctcaatcacc taaatcatct gcagcatttc tgtgttaaga gaatccgaag 60  
taggtgcatc agaagctcat atcatggctg aagatcaacc acgaacgggtt actcttgaag 120  
attattctag ctcgatcgtg ccacaattct tcacaagcat tgcgcggccg gaagttcagg 180  
ctcacgtcat cacatctcct caatccttga ttcagctgat tcaaggagat ttatttcatg 240  
gattgccaaa tgaagaccct tacacacact tggctactta tattgaaatc tgcaacacag 300  
taaagattgt cggtgtgcca gaagatgcag tgaagctcag tttgttctca ttttctttgg 360  
ctggagaagc taagagggtg ctacactcat ttaaggana caatttgaag acttgngatg 420  
aggttgtaga gaag 434

<210> 30078  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30078

tagctgctaa actaaaatca attgagggaa cctccccag tattcccatt gaaaaacctt 60  
tatatcaacc tttcaaagt agtgaaaagg ctaaacgaaa aaattaggga cctataaaaa 120  
actaattctt aattgaaggg cgacgtgata accatagtga aatacttaac aagattgata 180  
gtttacttaa aggcatttca gatactcccc aagcctcgga aaatactttc aaaatggtaa 240  
caagaagtac cctccaatta attaatgggt ataatgaaga tagtgaccac agctcagaat 300  
acacacactg agataggatc agtgtcagaa aagaatatan atccantaaa ttccaacacc 360  
tgagaacacc cctccaaata tattatcaac n 391

<210> 30079

<211> 436

<212> DNA

<213> Glycine max

<400> 30079

atccaagtaa ttcttgtggg tgaagctcct tcttcttggt ctattcccta gtggatgggtg 60  
cgtccctctt cctcttctcc tttgccttcc gctgcatctc catgggtgaaa aatcaccatt 120  
gaaggacctc attggagctc aaagatccag cctccataga atcttcacaa gcaagtttcc 180  
atcaagtggg aatcagagca caagagctac aagtaggtgc tccttataacc tccattaatt 240  
tttttgcttt accttctctt ccattgttgt ttctccatgt atctctcac atgtcttggtg 300  
ataaatgttt ttaacatgat tcttttagagt ttccaccgat taaacttggt atataagcta 360  
gatttgattt tctatgggtc acatttcttg ttcttgggtc tgaaccatga attgtgatga 420  
gtataagttc ctttga 436

<210> 30080

<211> 346

<212> DNA

<213> Glycine max

<400> 30080

tatcttgtca ttgtctacgc cgaagacgaa ggatgacgat gtacctttct ggaaggatgg 60  
tgaacaacga cccctaagaa gataaagctt gctgggaggt tgctgcgtgc acgggacacc 120  
atagacttca ccgaagaaaa cgttctttga aactgaagaa gaagagaatg ttgttttatt 180

agatatatta acttttattt tatgaatgaa gggatttcta tgaagctcat tctattgctg 240  
 ggcgcacccat caattctgtt ggggtgcacct agcaacagcc aggtgaattt cgcgcctatg 300  
 ttggcctcct ttcccttaac caatgagtgg tctccaatt gagcat 346

<210> 30081  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30081

tcctagcggg ttctaattat atggacctat aaatctatat atgctgacaa tagacgagaa 60  
 gttcgtggat ctctctcngg gggagtaggt gtccgccatc gctttggcct tggctagctc 120  
 ttcacatg gattcctttg catcttgaa gatgaatggc aatgtaatgg agacaggaag 180  
 agagagagga gacgccactt cagggagaag atgagtctag aagaagctca ccacatagg 240  
 aggccatgga taagagcttg gaggaagaaa gagatgaatg aagggagaag gagagaagag 300  
 cacganattt tgtgctctaa atgagctctg aaatctgaag tttaatatcc agatgatcaa 360  
 agttcaaaaa aatgcacaca tatgacctct atntataccc taagtgtcac accaaattgg 420  
 a 421

<210> 30082  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30082

tgcttatatt aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taagatgcat 60  
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaattg 120  
 attataatga tggatggctc acattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
 tttaaaaact atcatgacat gtagagaaga atcaatgatt tcaagtcaca aaatgtcaag 240  
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tctataatt caaagaaaaa 300  
 catgcaaagt cgtacgtgca cacaaaatng acccanaata ttaaactgaa gatccgacga 360  
 aactaacaac atttacagag ttacacaact aacanattaa caaaaccaac 410



<210> 30083  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30083

nttgaaatca aactttttcca ctggtaatcg attatatattga ttatggtaat cgattactag 60  
 agaataaaaa ctctggtaac ttagaaaatt ttgagaaaaa cttttttgaa aaacaaaatt 120  
 gggctatggt tgttttttga aaaatctttt caatacttcc cttgtgaagt attcttgatt 180  
 tcttctcttg aatcttgaat tcatcttctc ttgaatcttc ttgatttaat cttgatcttg 240  
 aacttggtga ctcaatcttg aaatcattct cttgggcttt ttgtcatcat caaaactact 300  
 tgaatcaact tgattcatca tcatgaagct tgcttctaca ccaaccacaa agtcaattac 360  
 agactaagcc ttgtcttgga tatttagatg cagaaccatc ctaattagaa tccactgcag 420  
 aacaata 427

<210> 30084  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30084

gatgccactc tacttcaaatt tcttgaagga tatggtaacc agggaacata agtatattca 60  
 ccaagaaaac attataatgg aaggaaattg gagtcttggg attcaaaaaga acctttcacc 120  
 ccaacctaaa gaccttgagg gtataactat tcctttgtca attggagaag tcaactatggg 180  
 aaaagctctt attgacctgn gagccagtat aaatttaatt gtgctctcca tgtgtaaaan 240  
 ggtgggaagc gtagagatca tgcccactaa aatgac 276

<210> 30085  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30085

cggagccnca tgaattgagt tttcgttatg cttctctacc ttcgagtttg gagccatgcg 60

tagtgattgc ttagtgcaat tctccattct caaccctttt ttcggagccc catgaattgc 120  
gttttcgttc atgtgtcctc caccttcgag tttggagcta tgcgtagtga ttgcttagtg 180  
caattctcca ttctccaccc tttttcggag cccatgaatt tcgttttcgt tcatgtgtcc 240  
tccaccttcg tgtttggggc catgtgtagt gattgcttag tgcaattctc cattctcaac 300  
ctttttcggg gccccatgaa tttcgttttc gttcatgtgt cctccaccat cgagtttgga 360  
gctatgcgta gtgatggcct agtgtaattc tccattctca acctttttcg gagtcccatg 420  
aattgcgttt tc 432

<210> 30086  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30086

agctttaagg ttttangacc ttaaattctc ttaaggtgcg gatgtggagc ccaactgaaag 60  
tgagaacacg tagccctcta aagtcggggg cgggtcacc tttgaaagac gaaggcgtcc 120  
agccctctaa aagcgagggt gtgtagccca cttaaaggaga ggggtgtgcag ccctctgaag 180  
gcgaggacgt gcaaccctct aaagggtgaag acgtgtagtc ctctgaagggt gagggcgtgt 240  
ggccctctga aggcaaggac atgtaatcct ctgaaagcga gggcgtgcag ccctctaaag 300  
gagagggtgt gcagcctcat gaaggcgaag atgtgcagcc ctctaaagggt gaggacgtgt 360  
agtcctctg 369

<210> 30087  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30087

tatgcccag tcatcatcc ctatgagatg ttgttgattt attggcgatc agaattgcc 60  
ttgcttgat tacgngttg aaccaagctc atgcttttac aaaaagggtc atcaagtcaa 120  
gttgaaatat ggaagtaacc gtcttgcaaa attggggcaa aagatgaatc gagtcacatc 180  
actgcttcgt ttactgcaa acatatntag gattgtttat gtccttgta cttccagttt 240

caccttgaca aagatgtcat ggaccatggt gaaaatctaa attgattcaa ccncatatcc 300  
 tgcgtaaaca ttcgcaatac ttcaactgta catcattcgc atacatccat gcttttcatt 360  
 ggttgcatg ctcatgtcat tctttccttg aagaataana tacaatacaa aatggactta 420  
 atcattgtta tc 432

<210> 30088  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 30088

caagctttta tttcctgaag ctccatggta tctatccact cattgaaacc agcacttgca 60  
 tgaacaccca cataccctg agaggaacca attctttcat ccatactcct aatactgttg 120  
 aaagtcccca agaaacacca agcaccctta ggattagagg cttttaagtg cttcagttga 180  
 tcccaaagct ctctcttccc agctatgtca cacggggcat aaacatttac aatgtacaac 240  
 agcaagttat ccttagccca tctccctgcc aacatcagaa agtttgtgcc cttgaccctt 300  
 ctatcaacct cgaaggcaag gttattccac atgcaaagaa gaccaccagc agtggttaatt 360  
 gaagggacac tgtccaaga cacacta 387

<210> 30089  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30089

cgagttcttn tcttagccct attctctgtn tgctnttgct tcttccttaa ggcattgttt 60  
 cttctacaag ttctttgaat ctcttgatcc aaagggacta gatcttctta agaaactcta 120  
 cctcatatcat ggaacaaagc aactaaagaa catgttagca cagtactcaa gagtaatata 180  
 aaaacagaat ttaaaagcaa agaattgaag aataatgaat cattgcatag aatatgaaat 240  
 tagcataagt tgcctaatac gagaaacaag tccccgacaa tgatgccaga aaacttatta 300  
 catcattgac aaacgtacca attagtgtag tattttcaat agtaagtaga aagactgtct 360  
 cctcaaggac ttgtntgtac taagcttttc tgtgtaactc aacaactaag caatgataat 420

ttttttttt g

431

<210> 30090  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 30090

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tcttggcatt aatactggca cccaatccac catcatcaga ccaatctctt tcgctgtctg 120  
acccaaaaac actctcactc tgactaaaac tacttggact tgctgggatt ccgggtttct 180  
gcttgctact tgagcctggt tctaaagcat tttccaattt atcacgaagg tttaaaaact 240  
tgtgcttctt ccttttcgcg cgcaattcgc ttagtacggt ttcctttgaa gccgtctttc 300  
agcatgtcta gccgaggaac gaaccttgac agaagaagga tgatgagatg aatctgcagt 360  
agtagtatta gtagtagtag t 381

<210> 30091  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 30091

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tgtacagggg tattttaagg ctactccact cgatcgagtt tatattcaca ccagccattt 120  
ctattttcga tatcttctca gcacttcaga ataacaactt gcattttatt ttcttttgct 180  
tttgaggcta aatcaggcct acggatatgc ttacagcgtg tagttctgcc atctatctat 240  
cacaagagaa agagaagcgt tacaactaagc tagtattaag tatttaattt aataataccg 300  
tgaagggatt ccgaatttat tcattgaaag taaaacatac aaaacgggga cgatcacata 360  
cagaggacca gttgaaagat gtttctagtc tagctctcaa cagaccaca ctggaaagat 420  
gcttggtggt tgctggcatc tttcg 445

<210> 30092  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30092

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agattgtgac catcaaggct gatcaaaaagc aagcacaata atgctatgct gagagcctga 120  
aggtaacacc ctatcctccc actagggagc ttgccaagcc tcaccctaca gcggttgaag 180  
gtactcaagt catgaacaaa gggcttccaa tccgagcctt cattgtttac caaacaagcc 240  
tggacgatga atttgatata gatttgtggg agaacacttc tgacagaggc caaaagccca 300  
tcgaagagct tgtcaagctg catgtaagga cctcactagc cttgaacaca agcacatcat 360  
tgatgtccta tacaagaaca tggacctggt ctcttgcagc catctgacat gccgag 416

<210> 30093  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 30093

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attttcaatt cagttcccaa caaatcctca tcattctagt tgttgtacca atgacgacga 120  
caacaacaac tattggagca tggaggatat ctgggtcaatg caattagcca attactgaac 180  
gggaattaaa cctataaaca taaatataaa taatatatat aaacctaagt gtctaagttc 240  
cataaattaa gctgtagtct ctggcttaaa acatgttagg tttgtttata caagtagttg 300  
gatgtttgga gtacttcggc cttttgcgta ccatcaatat ttaagaacta agttagttat 360  
gctccgtaac ttatgggctc ttaataaact atatctgcac aaaattatat atatatc 417

<210> 30094  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 30094

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ggaaccaatt cacctgcaga agatctacgc atacaaacac taacaggaac agcagttaac 120  
caattcaaga agaaaataaa ttctgaacta aacaaatatt aacaaaaaat aattaataaa 180  
tcaaagaata atgaattaat gccttcaaac tgaactcaac tttccaaatg gaaaaagttc 240

cccggcaacg gtgccaaaat acttgatggt cgcccctaag aatactactt atttgtgtgg 300  
 gcgcagaatc taccggcgag tgcacgcat cgctcaagtaa ataattaaaa cgaaataagc 360  
 cgaatatcga acaca 375

<210> 30095  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30095

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 agggatgggg acgtgcgaat tgaaggagat tanggagaaa agttaaactt tgaagtttgt 120  
 ctacacatgtt tctcattcat caaaattatg gcaagtgtta cacatgtttc tatattatagc 180  
 ctagcacagg ggaaacttcc taacttcctt gagaagcaag gaaggtagct tccttgggaa 240  
 gctagaggaa gatagcttcc tagagaaact aaaggagggc tacttacacc catccaatag 300  
 ctaagctcac ccccatgccaa aaatacatga aaatacaatg ggaagcttcc ttgagaagca 360  
 acgaaggtag ctttcttggg aagcaacgaa gaaagctcta gaggagggga aggacta 417

<210> 30096  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30096

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 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggctcgtt tctccgggag cgacgcgtcc agctcagggg caacgagtat actgatttcc 180  
 aggaggagat agggcgccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240  
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgangtcctg ggtaaggggt cagtggatcc cgtttgatgt tgacgctatc ggccagctcc 360  
 tgggatatcc attggtgttg gaagagggcc aggagtgtga gtat 404

<210> 30097  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30097

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cttgggtttaa acatgattgg tacatgattt gngacttgta tgattcaatt tgggcaaaat   60
tggatgaatg caagagtagt tttcgaaatc tgcactttat gcagaatttt gctgttgaaa  120
tgtgcaacag aattttgtat aagtgcagaa aaatgcttgt gtatggctgg ttgtgaaaag  180
ggtagtacat atcgggttct gaacatttgc tagcagatcc caacgggtcaa aatgtagact  240
tatgtactag agactgccag taaaattttc gagtcgatcc aacggttaac gaattggaac  300
gaaggaaacg ttactggggg atttgtatgt gaaaagctgt gattntgagt tgtgttttgg  360
gcagagtttt cttgcctttg cctgttttgc ttggttttgt gagtccatga tgattggatg  420
tgg                                                                 423
```

<210> 30098  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30098

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ttagtaatga cccactaacc tagaattaaa ataacttaat gccattaacc ctaggaatta   60
aaaaaaaaactt aatggctgaa tgtaactgaa attgtggcaa ccaaaagtca cccccaatag  120
ccaacaagtc agccaccatt tgggtctcca aaaggctgat gcctangttg ccaattgggc  180
ccttattaca acttgaacta aacctaacta aagccctttt agttgattaa cccaaaacat  240
atTTTTggtc agccaacttt acaaggattg ggccattatt tagacagact aaacactcta  300
aaattgaaac aaagtgggtg catttaatcc tccttcattt gggccatgat acaactcaca  360
accttttgga ctttctc                                                                 377
```

<210> 30099  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30099

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ggagatatgt cgcaggggtc acgacacctt gaggacgtca ggtgggggtgc tattgccccaa 120  
aaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagtgaag aacctgcgat 180  
gtacctaatc aggcgagctc ctgccagtca acagataata ggaaaactag accacaaagc 240  
aaggaggctt gtgggtggctg gccagctgtg aattttgtgt aatatgtgga ttgaggcctc 300  
tggtaatcaa ttactaaggg tgggtaatcg attacaacgc ttattattga agacaggagg 360  
ctaagatggt ctctggtaat cgatt 385

<210> 30100

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30100

agcttttcat aaaagccaaa ctaagcaata aagtacctcg tatttttccc tctgcctcgg 60  
gttgctgtgc aatcccttct acagcttgcc ctgcagcagt gccttgacca accccagggtc 120  
caatagaagc aagccctacg gccaacccag cagcaataac agaagcagca gaaataattg 180  
gattcatgat aatttcctcg taacctaaat ataaaataaa gaaatagtta atgatataat 240  
caaccaataa attatgactt aattnttcaa ttatcaagat ttattcgggt taaagtaatt 300  
aataagaatt ccgaattgaa aataataata gttattgaac tctacgaatt acttcgagat 360  
ttattttttc gtctctacct acatacatna gttttttttg tgaatatgt 409

<210> 30101

<211> 410

<212> DNA

<213> Glycine max

<400> 30101

agcttttattt agctaaaatt gaccttaaaa taaggggaaa aatcttttga tatatgaaat 60  
aaacatgtca cttccaaagc cattcaagtt acataattaa ctttttttca aataataatg 120  
ataataaata tctaataatc atcaatgatt catgagcact taatatcaca tccaatctaa 180  
aatcttagca cactaaatct tcatcgatga tagtgaacta taaaataaaa ctataagtga 240



cattaattct tgggtgtttt ttctaagaat gtattttgtg aaaattaaat ttaacttttc 300  
tcttcacaaa ctcaacgtgt gtatcaaag atacacctat tagattgcac tgtaccagac 360  
tagtttaatt ataaaaaaaa aaatcctcat ttttcttttt gtttggcttc 410

<210> 30102  
<211> 495  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30102

cgaccggcgn nttatacttt cgcttgactt acgtgatact tagacacccc accttgctgc 60  
gatagagagt cttactgttt attgcatgcc tatatagctc tacaacataa ttaagagtcg 120  
tactaaaaaa aaggtaaaat ctattaagag agtcttactg tttatgtcat aatttataac 180  
ttttattacg aattgggata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatatata tattttgcat gagtcataac ctcatagggg ctgattttat 300  
tattgggatt atcattctat tttattttga aaattgtctc tttttctacc tcgcgcttaa 360  
gagaatttct tatactatct acttctcttt acagcactta ttgcctcctt ttctatcata 420  
actcttgata ataccactgc atcgctgtct aataatatac catgtctgtc atatagccct 480  
tattctctcg agacg 495

<210> 30103  
<211> 295  
<212> DNA  
<213> Glycine max  
<400> 30103

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tggggcaccc ccctgatat tggaaggcga ccaactgtgc cagcacaacc agaaaggga 120  
gctatcacgc agctactatg cataccgggg taagatttca cccatgccgc tgcaaagaga 180  
cgagtgtgga tcatgtgtac cgacatgacc ccttttacac agatataaat gatgttgcta 240  
cttagcaaca ttcttgccag cgaccgcaat accgatctcc ccctgcggaa gtatc 295

<210> 30104

<211> 438  
 <212> DNA  
 <213> Glycine max

<400> 30104

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cccttatccc atgcttcttt ggccgtcgat gcgttggata tcttctcaaa tgtatcttca 60
tccaccgagt gataaatgag aaagagagct ttcttgtctc tctttcttga ctacttcaac 120
gtctccttta caccctgggt tagcgaggct tcatcttgct cctcgaagcc attctctacg 180
atatcccaca catcttgagc tcctagtagc gccttcatct tgatactcca attatcatag 240
ttgttctttg tgagcatcgg cattcggaag ggaaaacctc cattcgccat cttttgagga 300
tcttgaagct ctgataccac tttggtggaa ataaggctct ttatgtctat gaaaagcggt 360
taggaatatt ggagactctg aatagacact tgataggaag gagaattctt tatggaggag 420
agaactttgt acttttgc 438
```

<210> 30105  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30105

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tgcccgtcgt tgagttgttg cagttcgcgc acctttgtca attaaccatc ctctacacn 60
nngaaaatat gatgacatag ccgctctata gtatttatcc tctaacaaa taaattcgag 120
ctggtggacc atcttctact aactctgact tacaacagta ttcctatccc tcatcccat 180
cgcacctaaa gcatgtgcac acaaaaaaat ggaagaagt gaaaaggaga tcttgagac 240
ctctacgaaa gtagaggcta acataccttt attggacgca ataatagaaa ttgccagata 300
tgctaaattc ttgaaggaat tgagcaatct catcggaact gataggaagt gaacgaatat 360
tatgagcaca aatgcttcgt atcattggaa agcagctccc aatccctgaa aatgtaaaaa 420
ccatgccatt atcatactg attaaggac tatgtttgac agcccgctaa ttatgactcg 480
```

<210> 30106  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30106

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cagaaaacca ttaaaagaag tataactttt aaaaaaacct tgaaaccatt ggaatagtta 120  
catcttttga tttttattca aaacttatca ctggtaatca attaccaaatt cattgtaatt 180  
gattacacaa agcatttttg tgaaaggatg tgactcttca cattttgaat taatttcaac 240  
gttcaaacac actgggtatc gattaccana tcattgtaat ngattacacc 290

<210> 30107

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30107

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aggggtttgt gacaaggaat gggatgagtg ctacggaaat ggttgctggt ggttggtgt 120  
gtggaaagga tggcaaggga aggggtggtt caacggatgg tatgggttgc aatggttgga 180  
gctataatgg cagccacaga agctccattt agcagtggtg gtggatggtg gtagtggaag 240  
ttggtatggt agccatggaa gacaaccatg agctctcaat gaaagcacca aatgctacaa 300  
acgcaggaac aatggggaag aataacctag cttcgagggc taggaacctc cataagagag 360  
aaaaataagg aaggaaaact tgtatctatt ttntgctgtc ctctattgca tactaagcat 420  
cccttatat 429

<210> 30108

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30108

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atagaccccc caciaagaaa atagggaag gtaacataaa atcccaaat tagccacaat 120  
tatcaattaa acccaaatat ttgcctaaga acaaatgaa gtaaggtag aaaataagag 180  
ccaaaaagag gtgaaatatg ctaaggagaa tagaaaaata ttaaactaag aatgctcaat 240

caaatttccc cacactttat cttttgcaact cctgggcaaa actaagagaa agactaagaa 300  
aaagaaatca aactaaagggt aaaccacaac taanagaaag gaatgaacaa gacacacata 360

<210> 30109  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30109

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ccatgacgtc atcctctgag accagtttca tctatatatt tgcattcattt ttgacatttt 180  
ccaaagctaa ttttatggat tgaagactag tagtgcaattt gagacctatc aatcctaaca 240  
agatcagttc ttcttgctga agttgttctc catctctttg tgtataagca aaagcaattg 300  
gcttaagggtc agcatccccc atttgttgaa tcacctgggc aactttgaac ttcttatttt 360  
ccatggcatg tgtggcggtt aaacaaatta gttttacaca tganattaan aataaaaaag 420  
gaaccttcga gt 432

<210> 30110  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 30110

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cgggagacta cacctgggtac ttgtcatgct gatcaacgtc acattggcgg atgtactcca 120  
ttataatagc tctcattctc ttccaaaaga agctggatga caaccgctta tacgtcttcg 180  
tgaattccga atggccacct gcaaccgtgt cgtgaaattc ggccatcaca gtaggttacg 240  
caacatcaga cagcctttga agaataggac accatcgtgc agagtatagt gtggcagaga 300  
atcagaatca gattgcaatt gcgagctcaa cttgaccaac tcaagggtcat tatgcacttc 360  
gtgcttgata gcagggaatt ccaccaata aggactcatg cagatgggtgc tgaactcact 420

<210> 30111  
<211> 416

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30111

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tggtacctgn agatatgtct cgggggtcag gagacctttg ggacgtcang tgggggtgcta 120  
ttgccccaaa ccaaacttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgaagaa 180  
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa tnttgtgtaa tatgtggatt 300  
gtggcctctg gtaatcgatt accanagggtg agtaatcgat tacaaggctt anaaattgag 360  
gacaggaggc taagatggtc tctgnhtaag cgataccaag ggggtgtaac gattac 416

<210> 30112  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30112

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taaaggcgta atagaacttt aatggatatg attaggagta tgtaaatcaa tttgacttta 120  
cccgtatctt tgtggatgta tgccttgaaa actgtcatgt atttgttgaa taggggtcct 180  
agtaaggcag ttccaaagac acctttaaac tgtggacaaa taggacacct agtataaggc 240  
acctgcatgt ttgggggttgc caggcagaaa taaggattta taatccgcaa gacataaaat 300  
tggatgcaag aacaatcagt ggatatttca ttgggttatcc agaaaatgaa aggggtatat 360  
gttttattgt cctaatacata gtatgagact tgtcgaaact aanattgcaa gattcattga 420  
aaatgaataa atcagag 437

<210> 30113  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30113

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 ccactcctca cgtntgggtt tttcggggaa aaacaccata actaaacgcg ccgcaaggga 120  
 tccctatcgc accagatcca aatctagaac gatgggtgat caagaggaga cgcaagaaca 180  
 gatgacagcc gacatgtcgg ctctgaaaga acaaattggcc atcatgatgg aggccatggt 240  
 aagtatgaag cagctcatag agaaaaacgc ggccaccgcc gccgctgcca gttcggctgc 300  
 cgaagcagac ccgactctct tggcaactac gcaccatcct ccctcaaaca tagtaggacg 360  
 gggataggac aactggagc acgatggcag ccctcacctg tgataca 407

<210> 30114  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 30114  
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 aacatgattc tttagagtct ccaccaatta aacttgctat agaagctaga tttgattttc 180  
 tatggttcaa atttcttggt cttgttcttg aaccatgaat tgtgttgagc ttaagatcct 240  
 ttgagttctg ccttggttatt ttctgtgggt gagacctaca ccatacaatt cttacccaag 300  
 t 301

<210> 30115  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30115

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 gtcacaccct tgaagtagga tcacaatata taagaagagg atgagtcaca cccttgtttt 120  
 ttggctttta aacattgttt tggaaacaat ttcttaaact gaatagattt tgaatgaaaa 180  
 attaattcct gaatagtgtg aaattacttt agaaaatagt ttttaaaacc aaaaaggtag 240  
 aaggaaatta aatagatcct aaatatatttc tttatgtaca ttntatgatt attatgttca 300  
 atgtcttcat catttactta gcttggaata atacaaactt ccactttctg cg 352

<210> 30116  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 30116

ttttcataga aattgcgttc tacctaaggg tgcaaatgaa aatttcttga cactcattcc 60  
 tgatgtagag aattcgattg gatcgaatga gtttagaccc atttctcttg tgggttgtct 120  
 atacaaaatt gtagctaaaa tactttctat ttgccttacg aaagtgttgc acaaggatcat 180  
 tcatgagtga caattggcctt tccttgaagg tagaaatatg ttagatggag tggttatagc 240  
 aaatgtgtcg aacatggatt tcctaaatta aagggtgcat tgagacctt actatgtcgg 300  
 ttcttgtgaa tgggagtcca actcacgagt ccaaaaacga gacgggctcg gtggtttgta 360  
 cgaatgccat 370

<210> 30117  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30117

agcttttatgt tgctcattga ctccaaaatg ctacaaagaa ggacagagat ctgtatgggtg 60  
 atttgcagaa gaacataaac cacagactct tgcaaacagg gcagatttct gattcatggc 120  
 aatctgagtt actaagggtga ccaaggcatc aagttttccc tcaggctttn tattttcaat 180  
 agatgaagat gaattcgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240  
 tgcactgaat tgttgggagt tggaagccat cttcttaatc aaattcctag cctcaacagg 300  
 ggtcatatca ccatgagctc caccattggc aacatcaacc atactcctct ctatgttgct 360  
 aagtccttta tagaaatatt gaagaatg 388

<210> 30118  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30118

gcttagcgcg tgaagaaatg gtgcttagcg caaggttttc gcttagcgga taagcaatct 60  
 gaaaatgttt ctaattcatg ttctacttat ctcttcacac ataattttta caaccctttt 120  
 tgttcattac taaacaagct gaaatcaatc acaatcacia gcaagatgtc ttaactacat 180  
 gcaaaaaata aaaatgaaga tagagaaggg aaagaaaagt tgggttgcct cccagtaagc 240  
 gcttctttta tgctactagc ttgatgcac atcctgttat ccaggatcca ataatgttcc 300  
 cacttcaagg accttcttct cagggtcttct ttctccatc acatgaactt taaaatagac 360  
 attccggtca agtgggtctt tatcttcatg aaatagatca aagctgattc tctgatcttc 420  
 tatgccaatn tgcaacatct tcttc 445

<210> 30119  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 30119  
 agctttagtg tggtgaactt gcgaacctta caagtcgaac tcttatcatg gcccacccat 60  
 atgaatgata taggggtgca agaacttgcg ttcaattttt tttttgggtcg atttatgaat 120  
 caaatttcat aatataaata aacatttttg agtttagtta caaaacatat tagtttaaac 180  
 acatttgaaa atagattttc gaaagtgttg aatctacact ttggaaactt agtttctaga 240  
 agtacaagca ttgttcaa atacaaattag agtaccttac tgaatctcca tgctccatta 300  
 tgtatgtatt cccctcgtca ctaaacctct ttggacccat tgggtctcaca tcaagacacc 360  
 attgcattga agactcatgg accaccacaca tgc 393

<210> 30120  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 30120  
 aattcatcga aggaagggtg gaggcaataa ctcaaaaggg ctcaccatct tggatagcag 60  
 atatggcagt gctcagggcc acgatgttat ttacaatttc tgaagctgct caagctagag 120  
 agaatcatta catgcacatg cgcacgcacc ttcttcacta attacgtacg ggtatagata 180  
 ttcccatagc taatcataat ttcttgttct ctctttaatt gtgtgtatat ctatttattt 240



ctattacgat gcatatatca tgccatagaa tgatgatctt accgattttc tacaatacat 300  
 ttgtcgatca actccgacgg aagaaatcta agaaatgaaa gaaaatatga atatgac 357

<210> 30121  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30121

agttttattga aacaagctaa aaagagctaa ttttaaaata agttnttcta aatgcccctt 60  
 gagtctatatt tgtaatgagt aagtcattaa ttttgcctc aaactattac cctttctttt 120  
 gaatgatggc taatgtaaaa aataaaatat aattactoga gtagtgccac aagtattgta 180  
 tatcatgcta agtaatcctc caaacattaa aaaaattggt caaattgatc cctaaattnt 240  
 tctcanatac ataaacttaa ggaccaaatt gataaatatt caatactacg gngattagct 300  
 aaatactttt attacttttg ggacaattta tgagatagaa agggccatac ttcaatgaca 360  
 aaattgatgg tttattcatt gtggaatctt canataaatg gtacagaaag atat 414

<210> 30122  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30122

ttctcctcca ttttttttat gtttaaaatc atctatgttt ctcttanatt gngtaacttt 60  
 gtgtttgaaa aaagataaaa aaggagggtt acatgataaa tccaatccac ccccatccc 120  
 tacctccttt tcccttctcc atctanacac actagaaact tccagggcac attccaaact 180  
 canngcaaaa aaggatgaagc cataggatca catattactt ttgatatacc ccaactaaga 240  
 aaaaaatntc acataaacac aatntaaaat tatttttttt caatttcacc tccattagac 300  
 tcagtatcgt ctctcttccc aataacatat ctggagctc cccaagttcc attcactctc 360  
 tgcctcagta tatangactg aattctcggg tgattgtgtg caatctagct tcagcttctc 420  
 aggttcttct ta 432

<210> 30123  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30123

tttcttttat cttctgtgnt ctgggaacct ctccttcctc atgtgtaccc aaaccaatc 60  
 acctggctca agaacgactt tctttctgct tttgttggt tgccttgcat agctcgatt 120  
 tttcttttca attagagcct tcaacttgctc atgcaacttc ttcacatact cagctctagc 180  
 ctgtgcatcc ttatgcttaa acatancaat gttaggcata ggcaacaaat caagaggagt 240  
 caaaggatta aatccataca ctatctcaaa tgggtgaacaa ttagatgtgc tatggacagc 300  
 ccgattatna gcgacactca catg 324

<210> 30124  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 30124

tctacttatg tggcagggcg ggettccttc accttcttgt ctccaacgcg aactttgacc 60  
 attggtgttc cttcccgca tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgttttt 180  
 tctaaacccc atcccgggtt cataaccgtt ccccaacata actcggggcca tcattaccgc 240  
 tgcacgcggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat acttctcgcc tgacac 396

<210> 30125  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30125

accaaaccaa acaacattca acccaaccct aagttcaact tcattctttg ttcatttgat 60  
 tcgctcccaa acagagacat agcctctttc ttttcgtttg agaaacaaac ccctcgtttc 120

aatcattgat ccttttctgt taggtttgtg aatntgcttt tgtttttgta aaactttgca 180  
 cctccccctt tttggatttc gtagttaggc gaaaatttta atgtttccgt gtttcaaatt 240  
 tgcagatacc agttactctt ccaatttcgt catggccaaa acctccttca agcttcagca 300  
 tcctttgggt acttnttttt cccctttaat atttcgttnt ctcta 345

<210> 30126  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 30126  
 gaatgaaata cagtgtacag actctaccct actgtttttg caagttaaaa caattgcact 60  
 agagaaatat tgccaaaaga agcttcctag ctagatctcc taaaaagcag ggatattata 120  
 gaagttggaa ataccacccc tacaaccttt ctttgatttg atcctcttac tgtgtccttc 180  
 attcctatgt tatggagcag atccccctcc aaagaaaaaa gaaagaaaag cattcaaaca 240  
 agttttgata gaaaagtcgt agagctagta catacaagta aagctaagaa tgtaggactt 300  
 tgattccttt gctttttgtc tctctttctc tctccccatt aaacggaaat taaattaaaa 360  
 aaagattttt tttttcattt ataaaaacaa aaggctgata aagctgaatt catatacaca 420  
 gagcagtttt acagtcggac atg 443

<210> 30127  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30127  
 acaaaagatg atcttctacc ccatttccta gttatatgct anttttcacg gtatattatc 60  
 ggaggtataa atctttaatt ccaccttgat tttgatatta cattaaccat aactcgatgc 120  
 tagtatatac gaaaaaaaaa ctgtaatttg attacttacc ttatgctcta atagccagag 180  
 gatcaaggct tctctcacct acgcttgctt attgtcttct agcatatgca acaaatgtaa 240  
 ggacagacac ttttgaatt catgtactc atc 273

<210> 30128

<211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30128

agcttctggt cattgggccc gtaaaactca ctagggatag cgggtattatt aaacgcagac 60  
 aaagcaacca gcgataaaac ccaatacaga taaagcacct aaactaatag aaaagtaagc 120  
 ttctccagac cataccagtg cagccgagc ccattgcaaaa gggtttggtta agatatgcc 180  
 gattccacca agtatacaaa tggaacccaa ccatacatgc cccccaatta tatcttccaa 240  
 atcgcacaca ctaacaatcc acccttttcc cccaaaaggt gattttaata aatatccaaa 300  
 tataatactc ggactaatgg tcacattggt tatttttctt acatctccgc ccccgaggc 360  
 ccacgtatca tatatnacct ccaatanag agccttgaat actagatgaa acgcaccta 419

<210> 30129  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30129

agggaccgag agtgagnctg agaccttgca caacatagtt atttagcatc catccccgag 60  
 agggaaacag cccggatcac cagctaattg ttttaattga ccgctcagtg acaaaggagg 120  
 taggggtgca gagacaacca ggaggtttgc ctataagcag acacccttga aagagtgcgt 180  
 aataactcac tgatcgagcg ctcttgcgcc gaagatgaac ggggctaagc gatctgccga 240  
 agctgtggga tgtaaaaaag aatccgtagg ggagcgtctc cgcttagagg gaacgacccg 300  
 cgcgagcatt gctggacgac acggaagcga caatgtcggc ttgagtaacg cacacgttgg 360  
 tgagaatcct atgcctcgaa aacccaaggg ctctctcgta aggttcctcc accgaggggtg 420  
 agtcatggcc taagatcatg ccgaaaggcg tatcgatgga cacaggcgaa tattctgtac 480  
 tacctttgtc ggtcg 495

<210> 30130  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        30130

tttatatgan gatanagctc tcttgcttct gaattcctta ccaaaatcct ttgaacattt    60  
caaggatgcc attctttatg gccaaaaaca aaaacttacc cttaaagaaa tcccgacctt    120  
caccagggac cagggaaatc caaaaccgcc agggttctaa tctgaggata atggtgaaag    180  
cctgaatatt ttcaaggaaa ggagtgaaaa aagggaaaca gaggaaaaag tccatatcaa    240  
gtcaagggat tcaaagaatg gctagaanac aaagttcana tgctttaatt tgtcaciaac    300  
tggtcatttc aagaaagact gccatacaa gatcaagaaa ggatctttgg actctgctga    360  
catagttgaa gcctctgang gtatgagagt cangtgttta gtagcttcta tcn            413

<210>        30131  
<211>        445  
<212>        DNA  
<213>        Glycine max

<400>        30131

aagagcccag gtagtccaag agaagttcaa gtccatatcc ttcaaagtct gaaaagagta    60  
tgatgaacta agagacgtca atatggccac cgctgaagcc ttggaacgag aaaccaagaa    120  
ggcccgaag gaagaacacg accaaagcaa agttttgagg ggctttatag ggcagcaata    180  
gtgagctcaa gctccgaaga ggtgaaagga atcatcatgg gtcaaaggca tgatcttgaa    240  
ggacgagcta aaagcttgcc tcatgtcgaa aagaaatttg tcccaacagt taagcgagac    300  
agaagggaat atgtgggcca tcatcgatga gtgcaaagag aagctaaatc tatcggcgac    360  
tcataagcaa aggctagagg atgagtacgc caagatatca gcagacaggg aagcaaggga    420  
tagggttatt gattcattgc accaa    445

<210>        30132  
<211>        412  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        30132

agcttgtatg attatggggg acccatcata tgtggtacta ggtggcaatc aggcgatggt    60  
gcaagtcgac tctccacatc caciaatcac acataaatcc accatcccca gttgtccacc    120

ttcaactgag ctacagtgt cccacgtagc ccttatcctc gttcctetca acaccgggtc 180  
 cccatcaatc cctccaagct tccacaacat ccaagaaatt cagcatccaa acatcatgaa 240  
 ctatccaaaa ccaagaaaac agggcatagg cagaaaactc ttcccaaaac acattccaat 300  
 accacagttt tctcactca nataccccag taacattctc tttgtttcga ttogttaacc 360  
 ggtggatcaa ctcanaattn ttactggagg tccctaatac atatatctac ag 412

<210> 30133  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 30133

gaataatggc ctcatcaaatt tattttatttc ccgaagttat tttctataaa taagtctcct 60  
 attgttagtg gtgtgggtta ccattattgg aacaaccaca tgcaaatttt tatagagaga 120  
 attcttcttc ttcttcttct tcttcttatt catgagattg attaacggat cgagggtttc 180  
 ttaagttgaa ggaattctga acacaagga agggttgtgc ctatgtgggt cagactttgt 240  
 aaaaggcatt ttacaagata gtgaacatct caaacgggtt gtttgagat tagacgtacg 300  
 cacaggcat gaccgaacta gtataataac tgagtttgca ttctctcttc ccttaaaatt 360  
 ctcttactta ttggtcttta tcttttgcat tacagaagtt tactttgaat t 411

<210> 30134  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30134

gctttgtttt aaccanatat gaacaattta tgcgaatcat tctttcttgg aaaactttct 60  
 ataaattctt gtaagattaa agctctcaaa acacctttta taccttgaga aaaaagactt 120  
 aaagtgttga gtgttatatt tgtctataag accatcacta aaattaatcc atgtgtaac 180  
 ttttaacaaa tctttgtgat ttgtttaaag ccaacaatgg cttgatagaa caaagaatat 240  
 tggtttaaat cacacttggc gtgagcttgt acgtgaagag ctagaagtga cagtgaataa 300  
 tacttgtaac tctgataagc tagtggaac ttggttgta ccaagaattg aat 353

<210> 30135  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 30135

gcacaattac cccttccact cttocatata aaatatctac ttttaaccagc tttgcttccc 60  
 tgggtgcgtc taaataaaagg attcaagaaa tgttgtgcct tcaacaggcc aacctagaag 120  
 aaaccatggc atagagcttc ctcttctaata gcatggaaac caattcgctt atcaagaaca 180  
 ccttggaagc ttcactcaag tacttcaacg actctcgat agttctatat taatatgcta 240  
 atgcaacaac gacttgcttc aaccggctaa tcccttgtgc tacaaccagc tacttctttc 300

<210> 30136  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 30136

agctacttga tgttgaatcc agaatgattt agagagtctt gatgatcaca aagatgatga 60  
 caaagagccc atgagaatga gttcaagatt gacatctgaa cacttcaaga atcaagagga 120  
 aatttgagtt caagattcac gaatcacggt tcaggattta agtttcaagg aatcagagaa 180  
 tcagcgagtc aagaataatc gagttgaaga ttcaagagtc acgtgaagac tcgattcaga 240  
 taagtacaca aacgtttttc aaaacattga gtagcacatg aatatctgac aaaacctggt 300  
 gccaaagagt ttttactctc tggtaagtga ttaccagatt attagaagtc gatacca 357

<210> 30137  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 30137

agttttctct cttaaatttc tataaatagg gggagaagtg aagtataaaa gggttcagcc 60  
 ccttaagcac ttactctct ctcgaaatag ctgacgaaaa ttagtttctg gaagaaaatc 120  
 caagccgagg cgcttccgta acgtttccgt gagtaattac gcgaagatgc tcgaccgttc 180  
 ttcaagattc atcattcggt ctctgctttc ttcagtcttc aacgggtaag tacctcaaac 240  
 caagcttttc aattcattct atgtaccctg ggtggccac atttcgcttc atgtattttt 300

attctcgttt tcattacttc ttatacccct tttagacgtgc ttaagccatt tatttaagtc 360  
 atttctcgct ttaatctaaa aat 383

<210> 30138  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30138

cgancacggc cntattgaca cntttagatt ccccgccact cgtagatta ttcaacctcg 60  
 ccaccagct ngactatgca ggctacgggtg ctacttctat attctccgcc ttctggcgga 120  
 acctgctgga atgctcaagt gggcctggct cctatcctca ccacatgtat actaaatata 180  
 cccaaaccac ttactcgttg attcctcatc cgtaaccgta cggaactcta tgaatctcgc 240  
 aacgatcctc gctctatgtc cagaatgtca cgaaacctta cggattacac aatcatacct 300  
 tatttggcct ccgaactgta actgaacttt accgactgag caacaatgct ctcttttgac 360  
 gtaatgcac gcacccaact ctacggatta tacaacaccg catcctttcg acttctgcga 420  
 tgtcacgaaa ctttaccgac ttactcataa tgggcgcaca gcaccttcaa gcggtcaacc 480  
 atggtctctc ccccaaacc 500

<210> 30139  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30139

ttgcttctta caagagacta agaaatttct gacaaaaaat cttgagatga aagatcttgg 60  
 ggaagcctct tctgaattag gaatcaagat actaagagat cgctcttaag gtatcctaag 120  
 gttttcacia gagagttata tcgataaggt cctaaataga ttcgacatga aagatagtaa 180  
 accaggagat accctgatag ctaaaggaga caaatttatt ctcaaacaat gtcccaataa 240  
 tgaccttgaa agaatagaga tgcaaaagat tccttatgca tcaacagtag gaagtcta 300  
 gtacgctcaa gtttgactc gtnccgatat agcatttgta gtaggaagtc tgggcagata 360  
 tttgagtaat ccttgaatgc agcattttaa agcagcnaaa cgtgtgatgc g 411



<210> 30140  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30140

ggctctagcc tcactcaccg cctttctggt tttatttcta gctatcttat acttatccgg 60  
 agtttgagaa tttctacacc tagaccactc cttgaaacac tcctttttta ctctaacttt 120  
 gctctgaaca ttttcattcc accaccacga ttctttaccc ctaggtccaa aacctctaga 180  
 ttcaccaaac gtctcttttag ccactttaat aatctcttgg gacatcttgt tccacatata 240  
 atttgacttt ccttgtgatt gtccacacca accctcccat atctnttggt ggaagattcc 300  
 ttgtttctca cccttcaagt gccaccattt gatccttggg gctaccatag gacttcttct 360  
 ctttgccta tctctaattc ttacactcat aaccaacact ctatgttgg 409

<210> 30141  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30141

ttgagaagat tgggggtgac ttacctatgg aactattaca gttggcggtt atgagttatg 60  
 ctgaatgtca tanagtagtt ggagacctgg accaaaataa gatagctttg gaaattttag 120  
 ctgttcctga ccttcctcaa ttgggtccat tttttctaag gaaatcatca ccccaaggca 180  
 atgaagacat tgtgggcca ggtattcctt ttctgttct acttgtgctt aatgaaattc 240  
 acaacgggta ctcaaatttg gaaggagacg cactttcagt ataagcagag cttggcctca 300  
 aataccaaga agttatgc 318

<210> 30142  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 30142

gtgaccagga tcaggttcca cgatgggaaa gctgtatata cagaaattgc gcaggaataa 60

gcgaagctcg ccccaacttg aagtaaaaag cacttcacag aaaactaaag aaactccagc 120  
 atacaaagcc ctagaagaga tcactaaaac catgcctatg aacagaatat gcagtatata 180  
 atagaagcaa taaagaaaac ttgctcacta ttcacaccaa taacaacaaa catagtccca 240  
 gactcaaaat acacctacct tcaaacaaat agaaatagaa atatagacac agtacaatgt 300  
 tatcattggc accattctaa catatagaga ataccgcact gaatctacac a 351

<210> 30143  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30143

cgcccatgtg tcatactatc tgggcaatca gctcgtcccc gngatccttt aaatcaacct 60  
 gcaggcttgc aaccttgact tgtctgccta agcacactat gcctctggaa gttttctttg 120  
 aattaagatt aacctaaact ctgggtcttag cccttgggtg gtggtgaggg aggttaacct 180  
 aaccccttc cacccttaac ttaacttttt tattggattt taaagttttg cagttaagct 240  
 aaatgcccc tgtgcgctaa cctggatgta ttctgataac gtgactaagc gcccatgcta 300  
 cactaagctc actctcttta ttgaaaatg ggacctggct aactcaactg ctgcctaact 360  
 taattacaan aaatatttgt gattcagcta tgcagttact ggcttatcct agaaaattta 420  
 aagcgcgcta cgcactgctc ctaacac 447

<210> 30144  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 30144

ataaaagtta ttatgttaga catttgtgag acaaaatgat caagaggcaa tgggaccctg 60  
 aaagtgtgaa gttgagagaa acctagatga agtgtaggct actttatgag tggcgtagt 120  
 ctatgctcaa gtccttggaa agtgggttatt gtgtgtggaa ctgtatggtt catgttggat 180  
 caagtcgaga atctagaagg gggttgaata gattatttca aaatcttgtg ttgtcaccac 240  
 aatctgttgc ccttgcaatt tagcacacaa gaaccagta tcaccatcaa tatgagttat 300

ggtatagaaa aattttacia ggtctatgta gtaggtgcac ttcattctcca ccaattttctt 360  
 caaccctgta taatactagt tcaactcagg aaaaaaaaaa tcttcacttt tgagccacgc 420  
 caaactaaca tc 432

<210> 30145  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30145

ttaatgggtat atttaccttt attagccata ttaaataatta tttattatta aacttaaatt 60  
 taagccaatg gtaatactaa aaattgggtat tttttaattt ccttaaattt ggaaaattcc 120  
 ccccccccc ttggagaaat ttcctaattc tgtccttgca atcagaccaa gtccagtgtc 180  
 tggagtagat gaacaagtgc tcaatcttgt actgtatgaa gaaaaggatg aagacacatc 240  
 agataccttt agagtatggt tggatgggga aacttaaaat tctgagaaat ttaaattcta 300  
 gaatttcnat acttcaatga attctttatt tcaaaatttt tggt 344

<210> 30146  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30146

tgagactttt attactatat tttccacttc ttatctaacc ttggaaaggc tccacaaaga 60  
 gaaagccaat attagaaata tggtttatttc tgatgaatgg atoctaaaca agttatctaa 120  
 ggagcctaag gggaaagaag ttgcaaaggc agtgctcatg ccttcttttt ggaatagtgt 180  
 ggtttacact cttaaagtca tggctccact tgtcaaagtg attcttcttg tggatgggtga 240  
 aaggaaacca gccatgggct atatttatga agcaatggac aaggaaaaag aaacaattat 300  
 caagtctttc aacgacaatg aaagcaagta caaagatgtg tttgcaatca ttgataaana 360  
 gatggaattg tcagcttcat aggccattgc atgcatctac ccactttctta 410

<210> 30147  
 <211> 211  
 <212> DNA

<213> Glycine max

<400> 30147

tttttcgaac cattttccgtg aataataatt ttttggccaa atggggccaaa aggcaatttt 60  
cgccaataa atgggaaaaa gccatgttcg gcccgaaaca aaaagcgggt gggctcgac 120  
aaaagaaact aacccgacta cattttaaat tttgtatgca acacaaaac aagaaaactt 180  
cctgtgccgt aaaaaaaaaa cattacatga c 211

<210> 30148

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30148

atgacgccga tcgaacattt cctaaccgac gtcttgcna tttcgttcag ggattgaatt 60  
gaaaactcgt taggcgacat ctgtcgcaa gtaccgaccg atatttttca gccgacattg 120  
cacaattctt tttagaaaag ctgctggtc gataatggtc tttttacggc agagtaagtt 180  
ttcttgtttt ggtgttgcatt aaaaaagtta caatgtactt cggctagggt tttcgtgcga 240  
gttcaaccga cattttgttt cggccaggaa aacattagcc cacctctgca aaaaaatat 300  
ttgctaaccg tcttcatgca tatttcattc aacgattgaa tagaaaactc aatagccgac 360  
aacggctcgtg aaatagtccc gactgatatt tttcagccgg cattgcgcatt ttctttctaa 420  
aaaaacgctc gctgg 435

<210> 30149

<211> 168

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30149

atgcttcaat ggaggaaaat aaagaggag agaaagagag aggggggggg ggggaacacg 60  
aaattgaagg gaataaaaag ggagagaagg gaactttgaa gtatgtctca caagactctc 120  
attcatcaaa gttacaacaa gtgttacaca tgcttctatn tatagact 168

<210> 30150

<211> 445  
 <212> DNA  
 <213> Glycine max

<400> 30150

acgggcatct tagttcattc cttatgaata atgatttttt tagaggaaaa tggatacaac 60  
 tatgttatgc aagaattatg attcccaatt tagcaatttt attaagaatt ggcttccacg 120  
 ttttctctct tcttggggta gctccaatag ggataccaag atacacaaag ggaaatttat 180  
 tgatcatata gtttatgata ctagcatacc tctccaaagt gctatcttta accctaatag 240  
 tcctaaagaa acttttatga aaattaactt taagtcccaa gatgagctcg aaacctctta 300  
 atatactttt aatgggtatac acatttgaga gggatgcac accaaaaaat aataaagtat 360  
 catcggtata ttgaaggaga ttgatttgag ttttttcctt acgcaccaag aagctacaaa 420  
 acaaattttt ctcaatagct tgtct 445

<210> 30151  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30151

agctnttgat caattcanat ggtcataact tttaactcag atgtctgatt catgcgcata 60  
 atatatcgag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 120  
 cttttaactc agatgtctga ttcaggcgca taatatatcg agacgctcta nattgaacaa 180  
 cggaagctct caagtaattc aaatgggtcat aacttttcac tcggagggtcc gattcangcg 240  
 cataatatat caagtcgctc gaaattgaac aacggaagct ctcgagaaat tccaatggcc 300  
 atcttttcac tcgnggtcc gatttaggcg cataatatat cgagacgctc ganaatgaat 360  
 agcggaagct ctcgagaaat tcacatggct ataactcttc actcggaggt ccaattc 417

<210> 30152  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30152

gggcaacaat ggtggaggaa gataagaaga agaatgtttc tgtgagagag agggagagct 60  
 tcagaatttc ttttggctga gtgaggagag agaacagctt ttggttttta aaaggggttt 120  
 ctctttttct attattctat tcaagctatg ccacatgtct ccatttgagt ggagcgaana 180  
 gggcccaactt tctcttttga ttgtgactca tactcagcca caaaaagtga gaaaatctga 240  
 cctttgaaac gctaaaatcc tgctcgggtt tgcggtgcat ttctctgggt ccagttcttc 300  
 gtgtttctct gcgtcgcgtc gngccagttt tcgaaagtag gcaatatata tatatcanaa 360  
 cgctcanaat aaaaccccgga gcgtggttca gaggttggtt ttgttaaatt ctaagtcgca 420  
 cgcaaaatga tgatctttta actaat 446

<210> 30153  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30153

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 agtccttctg attcaatttg tgtatttctg actttatggc atgagatgat gtacaaagat 120  
 tggacctctt gttagtgtt attggtaaata aacttanaca cttatgcgtg agtgatatag 180  
 tggccgtgag aatttggtta aatatctttc catgaaatct gtctcttgcc tagcttcatt 240  
 tagttgtgtt gttgactaac atgttctttt ctctgaanaa ctgcatgtct tgtgaaaagc 300  
 aattgataaa angcattttg gttcatttgg tatcatgtaa ttaaaatttt gtgaatcaca 360  
 cacctttgta cataatcaact gcatgctttt ca 392

<210> 30154  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <400> 30154

tcttccacct ctctgcaatt agaaatccac tatttctaaa ggcgttgaaa acctggtgac 60  
 acattaaact tatcacaact aaataccgtg agagagtcca accctttcag caatacttcc 120  
 tctcccaaaa attgagcaca ttcagtaatt tcaagattgg aaaggcatgg gaacatgttt 180  
 tccccatact cccttgataa cctttttaaag tttggatgat gacggatggg cagatcttct 240

agagccctga aaactatttc cccatcacag gactcctcat agaggtattc tacgtaatta 300  
 ttattttattg tacccaaaat ctttaaagaa ggcagtttcc ccaatagtgg aagttgtaaa 360  
 cagttttcac aattcagcag atttaacagg gttaaatact tgagagaagg agtagacatc 420  
 cattgtggga aatgagcacc ttgtg 444

<210> 30155  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30155

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 tgcacaacaa attttccaca tccacaaatc gtgcataaac ccaccatccc ctgttgccca 120  
 cctccaattg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180  
 tccccatcaa tcctcccaag cttccccaac atccaagtaa ttcaacattc aaacaacaca 240  
 aactatcaca gccaagaaaa tagggcaaag gcagaaaact cttgccaaaa caccaaccaa 300  
 aatcacagct tttctcactt aaagacccca gtaacagttc cttcgttcca gttcgttaac 360  
 cgttggatcg actcgaaaat ntcactggaa gtctctagta cataatccta cat 413

<210> 30156  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30156

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 gtcagattgg gaatgcctct aacagcacct ttgtcaatga ttttcttcat gcctcttaag 120  
 tgcagatgtc caaatctttg atgccatatt ttgacttcat cttctttgga gaatagacat 180  
 gtggaggagt aactggtttc ttgagggtgtc cataggtaac agttgtcctt tgatctgctg 240  
 cccttcatta ggacttcaact cttctcattt gtcaccaagc attctgactt tgtgaagttt 300  
 acattgaatc cttcatcaca caactgactg atgctgatca agttcgagc cagtcccttc 360  
 accagcagta ctttgttcag actaggaagt ccatcatgga ctagctntcc cattccagtg 420

atcttttcctt tagagccatc t

441

<210> 30157

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30157

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acttgaataa ttggactgcg agtttgggct tttgttcgtg taattaattt aactagttta 120  
attgggctgc gaagtttgtg caacttgggtg tccaaagttt atccccctatt ctgagtgaaa 180  
gtaacctctt tgggggttaag tttgagttaa aattgccaaa ttctgcctct atgagtttta 240  
tcggtatggg caatttgggtc atttcaaagg aaattatctc agaatgggct aaaacttttgc 300  
caaaatgtag aanaattcat acatcgaggt gccctgtga gggacaaaca caaacattan 360  
gaatcatnt tgccaaattc atttatctgg accacttttg gaattccttt 410

<210> 30158

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30158

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caagagagct atatcaataa agtacttgat agattcgaca tgaaagatag taaaccaggc 120  
gataccccaa tagctaaagg agacaaattt agtctcaaac aatgccccaa taatgacctt 180  
gaaagaactg agatgcagaa gattccctat gcgtcgtagt agcaagtctg atgtatgctt 240  
aagtttgtac tcatcccgac atagcatttg tcgtaggagt tctgggcaaa tacttgagta 300  
atcctggatt gcagcattgg aaggcagtga aacgcgtaat gcgttacttg aagagaacaa 360  
aaggctacat gtcacttat tagaagnttg acaatntgga gatcatcggg tactcagact 420  
ctga 424

<210> 30159

<211> 348



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30159

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aaggttgat tcaactttatt ggtgaaagag tgtagtctgt agctgggtgg ctagaaatac 120  
ttttaatata cacaaagtat gtatttacaa aaaaaaatg atacaatttt cattgctaaa 180  
gacgggtgta agacaatcat gaaaataggg tgcaggggaa aaaactaaag ctcagatcga 240  
gcagaataga gcagggcagc agcttcttat tttgattgat ttgtcggggt tcatttattt 300  
taaaatgtaa tttggagact ctatgtttct ttcctttntc ttttatga 348

<210> 30160  
<211> 96  
<212> DNA  
<213> Glycine max

<400> 30160

tcttttgatc cgactatgtg actaatcatt gattcttgtc ttattcaaac ttaaagctca 60  
tctctcggtt gtaatagtgt atcatgttgg gatgac 96

<210> 30161  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30161

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gngcggatcg cttgatacag gctgtagagt tttggatgac gccacttcca gtgaaggaag 120  
ataagtcagg gtagacacca cttccggtga aggaagataa gtctgggcag acgccacaag 180  
gattaccttg ataagtctga gattgggttca accaggaacc cagagagaaa ctcaccatat 240  
tctatcatat gccagaagct ttgtcttatt cagaacgaaa accaatactt atagtgtagc 300  
tgaacaacaa gataaaaaata gacatgggcc ttctaaacag tttgggcaa aattacaata 360  
aaaataaatt ataactanaa acttatttaa c 391

<210> 30162  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30162

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tgagaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca cacaagtcta 120
taacatcaat ctaaacttgc tcaaactgga tttacaccta aaattccacc gaatcaaaat 180
ttgactcttc aacacccaaa tttgccctag aaatggctct ttgttcactt tggtcatttg 240
ttttccctc tatcacagcc taacctttct cataagtcct aaatggcatt tcaagctaag 300
attaactcgc tctaacctct aaatactacc aaatccagat ttggccttcc agccctcaaa 360
aattcactct ntttccactc ataacaccac attntcactt tctaacccta ggttaattct 420
accattcatc tctaacagt 439
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<210> 30163  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30163

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ggcggcgggc cccgatgaaa gcagagacca agtttgggtca ttctgcaccc ttgtatcate 120
caaaggcggc gggcccgatg atacgcggag ataccttacg gttatccgca cccctttgtc 180
atccagaggc ggcgagcccg atgacaagca gagaccanatt ttggtcattc tgcacccttg 240
tatcatccag aggcggcggg cccgatgata cgcggaaata cccgagtggg ttttcgtata 300
aacattcttt tgctatctgt aagacagaac gctngatagc atgcagaggc tgacatagtc 360
ttctgcacct tttggctcctt cgggaacaac aagtcattta catg 404
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<210> 30164  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30164

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ttgctaccta aagccgcatg ccaattcaag tatattttcc tttgctgact aaaattgtat 120  
tcaaattaaa ggggtatacat ttttttgtaa tgtattttct ttacataaca tgcaacatat 180  
ttatgtatat ttttttgtga gacattttga ctaccaaaaa ttatatgcac atacatccaa 240  
gtatttttgc atcataccca aagtgtaaat tgccaaaggt attttgctac ctattctaaa 300  
cctacacatt catgacgagc aaaattccta aacatctang cgtanggaaa ttattgtagc 360  
gtggcccata gctgattgct ggccaaaaag ggtaactnta cccaatatng cacctctttt 420  
gtgtcttttt 429

<210> 30165

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30165

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aggatcttgg acttgattat gttaagacag atgtttgcat tgatgattgt atcttatata 120  
aaggaagcta taaaaacctt gatgaatatc ctatttgtaa gaaaactaga ttgcaagaaa 180  
ataagaagaa aaataatgtc cccaataaca cagttcgttg ctttccaata aaaccaagac 240  
tgcaaaaatt gtttaggtct aaacaagtta tgtaataatt ttggtctcaa cattttggaa 300  
aatgaaaggc tccttcagtt ttggaattga gaagacanaa tgaatggcta ctaatgagtg 360  
gtaatgacca ctaatgggtg gtaatgacca ctaatgagtg gaatgactac ta 412

<210> 30166

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30166

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tctcaaaata aaaggtgaga ttgttttagca acttatgaac ttgaaaattt tgagtttttg 120

ttaagtacga ctatttggtg tgatcatatta tttcatgtaa actccattag taaaaagtta 180  
 caatcaaaaag atatgggtat gtatgttgct atagaacaat tgaaaggtct tatttctttt 240  
 tttgaaaaat atagagaaga ttgatttgaa aatgctataa tttctgctaa agaaattggt 300  
 attgaaatag atatagaacc taagcttttt gaaaaatgtg ttattcatag aaagaaaaac 360  
 aatttgatga gaatattgat aataaagttg taaaattgcc taaagaatca tttanaattg 420  
 attacttctt gtatataata 440

<210> 30167  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30167

gcttgtgcta tttctagttc atataccata cctttaagcc aaaatgcttc cttcactcct 60  
 tcaactaggg cccttgatgc tgctttaata aatgaaagaa caaccactga atgggtgaatt 120  
 gctttccaac taattggtat acccaacaaa agaaatacat atccggtaaa gactttcttg 180  
 tacctacatt ttctacaaaa tctgcatcta catagcctgt gattgctgcc tcatgtgttg 240  
 tcttcttgta ccttaatcca gcattcaaag atccatttag ataccctagt gtccacttca 300  
 cagcttccca atgtgcaactg ocaagatctc ccatgaatct gcttataata cttacagcat 360  
 gagccaagtc aggtctgctg canaccattc catacattat gcttgcaaca ccaact 415

<210> 30168  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30168

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 tttgggaaat gagtgaaggg tcacgggtcat ggggtgatgtc ggggccagca atgtcttcat 120  
 ccgcaagaag cagggtttaa tgggacttgc aacgggtggcc gtgagaccat ttatcatcgc 180  
 aatggtaaca caggccctgg tctcagcgaa ttgcaagctc ttctgccgat aaacatttga 240  
 cgggattttt ggtagagggg agggaaagtg tattataagg tttaggggaa aagggtgagg 300

gggtcgtggg ataagggaaa gggtttgggg aggatgtggg ggcacgggtt cctctgcagt 360  
 ggtccaacat tntatcccc tggagacgtg ccagctcaat tgccctgtgga agcgagatgt 420  
 ggcgcaacac atgga 435

<210> 30169  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30169

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 tatataagtt ggaagattct gtggaaaccc aattgccaaa gaaagtgact gtccatggat 120  
 ggagggcata cgcattgagat atcacatggt gttgtcttcg gtccaactat gaaggataag 180  
 ttgtgaagac ttgcgtaacc ncaccttatc atacattaat tggccagcat aaagtctcca 240  
 catgtaacca aatgagacgt gcctctgtga aacgtaacgt ctattcaagc attatttggt 300  
 attccatatt tgatatgttg tttgcgatcc aagtccacac accttcactg ttgggaattg 360  
 caaagaattg tctgtggagg gagaaatatg catcgcacga agcattacaa aat 413

<210> 30170  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <400> 30170

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 ctctccctat ccaataccag agagaaagat gaaccacacc acccacttcc aatcacacca 120  
 ttgcttcctt caaaaccatc acttttcttc ttggtgacat cttcatcaat gccaccaccc 180  
 cataaaaaat cttccatttc catgcctcaa taacaataat aaagttaatg ttcaaaaggg 240  
 taggtgattt cacaaatagc acgtgaaatg ggaaatgggg ttgttttggt ctttcttata 300  
 gtgggttttg agtgtgtgtg tgtttggaac taagtaagaa tgggtgagtgt ctgaaacagt 360  
 gtaacagtgt cagtgcagc atatgaagat ggcaaaagaa gtaataatga gaaaagatct 420  
 gaagggtact aagtaagaat t 441

<210> 30171  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30171

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 tgcaccgtgc tgctggctcc gtgaaccgac ggatatctgt gtctggatcc tgaggggcaa 180  
 ctctgggctg cgtagcatga ccatctgccc gaggatctga tggctggccc ggtgtcatga 240  
 atggatgcga aatgcggaag aatcagtcga tgtagtcgct tgcacactgc ccttgacaaa 300  
 cgcagatgtc acctgctaca accatatggt ccgaatagt catccacctg ttgtgtatat 360  
 catcagactg cacccatgaa tcngcangtg gagcangaat ggtctgagtg tate 414

<210> 30172  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 30172

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 tgcacaaatc acacatgaat ccaccatccc cagttgccc ctttcaactg agctcacgta 120  
 ctcccacgct agccttatcc gagttactct caacaccggg tccccatcaa tccctccaag 180  
 cttccgtaac atccaagcaa tttcaacatc caaacatcct gaactatcaa aaggaagcac 240  
 atacagggca gacgcacatt actctgcccc acacacaggc caataccact actattatta 300  
 ctgctataac ctattaacac taccttatgc acaattgggt caccgggtgga tcaactcgaa 360  
 gatttactgg aggtccctag cacataagtc tacatttgga 400

<210> 30173  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30173

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tgaattttat atgtatatag tttaatcatc tattcctaag ttttcaaagc accaatatta 120  
gagttgattt aaaatatttc agtactaaaa gattatttac acttatattt aaaatgtcat 180  
tttaacgtaa tgtgttttaa tattttaaat attatagttg taataaaaaat aattacacat 240  
ttattntaag tatgttattt taatgtaata tttcttaact tatttgtggt tcatnttttg 300  
gtttataatg tggttaacta ttatttgtga attttgttct tgagtcttat gtctaataaa 360  
tataaaccaa ttttacatgt ttcttacaaa cattgtatct gtctcttttc ttt 413

<210> 30174  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30174

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atgttctgtg cttttttggt gctttaggtg gtccttcatt ccctactttt aactctgtca 120  
aattgagatg tcaatgccat aaataagtta acagtaacag caatgtgcag ttcttcaccc 180  
cataatcagt cacagtgcac ttccctgtct catgggatat tattaanaagt cagtatctta 240  
aggtttgagt actttgggta tttgcaatga atctgcctaa ggtagagtag caatgggtctt 300  
taagggctaa ggagatataa taatcaaggg gaaatataca aaacaatcaa gaggaactag 360  
taaaaatata acaatatata caatgaacca agtaagaatc tc 402

<210> 30175  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30175

agcttctaca ttcaatttca agcttttcga tatattacgg gactcaatcg gacatccgag 60  
taaaaagtta ttggagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtgttt gaaattgctc 180  
agagcttcgg tattccattt cgagcatctc gatattattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtagtt tcaatttgct canggcttcg gtattccatt tcgagcgtct 300

cgatgtatta cgggactcaa tcagacatcc gagtaanaag ttattgtcgt ttgaatttgc 360  
tcagagcttc tacatttcat ntcgagcttn tcgatatatt acgggactc 409

<210> 30176  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30176

attcanacga caataacttt ttactcggat gtttgattga gtcccgtaat atatcgagac 60  
gctcgaaatt gaataccgaa gcgctgagca aattcaaaca acaataactt ttactcggga 120  
tgtctgattg agtcccgtaa tatatcgaaa agctcgaatg tgaatgtaga agctctgagc 180  
aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg atatatcgag 240  
atgctcgaaa tggaataccg aagctctgag caaattcaaa caataataac tttttactcg 300  
gatgtccgat tgagtcccgat aatatatcgg aacgctcgaa attgaatgct gaagctctga 360  
gcaaattcaa acgacaataa cactttactc gcatgtctga ttgagtcccg taatatatcg 420  
agacgctcga aattg 435

<210> 30177  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30177

agtttggttg tcttctcata aagatttatc ccttggttgg aattcttgac aggttgactt 60  
ctttgctcct tgttatactg gttccccgaa tgattcctcc agcttgagcc ctgtgtgaaa 120  
ttcctccctt gattgaatct cagcggctct cctaggttgt agccttgga tctgtggcgg 180  
ttctgagctc ccatgtagtt cacctccatg taagaatcta cttgngctat tgattgcctt 240  
gtttcatgtg ctccatcaca gatatggcat cccctatnt gcatgagtga agagtgaag 300  
ggacttaccg cttgtaaatg ttgagggagc ttgctgaggg tc 342

<210> 30178  
<211> 447



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30178

cagcaaatgt cttcacaaat aatcatcaca cagcttattt ctagcaagac tacccatcat 60  
atctcccaaa accccatacc cacgaaaatc aagagggaaa gaagtccacc caaacctgaa 120  
atttcgaagt cccactcgta gccacacact tcacgactcc aaaaacgccc tcctttcacg 180  
atttggggca gaaatgatgg ccaaaggttg aagctttgct tggagcttca atggagaatg 240  
aagaagaaga aaatggcaac gtgagggaga gagagagctg tctgaaaagt gtgggggctg 300  
agtgaagaga gagaaaagct ttttggtttt aaataaaagg gtttttctct ttttctatta 360  
ttttattcaa gctctgccac atgtccctat ttgagtggag cagaaggacc cactttcnct 420  
ttntactgtg acccacactc agccaca 447

<210> 30179  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 30179

gtactcgaag ggggtgaccc acaactatat gtacgattca gaagtatcct catcatttta 60  
ttaagtgaag cgatgatgtt cagaggcgga ctcatgaggg taccacttgt ctccatcagc 120  
atccatacat tgattacaag tgtgagtata ccccgctttc acctgcctta acgatcgta 180  
tgagcctcat ctgcctgact aatatgtgat gacaagagac gaccctacta tgggtcgatc 240  
tcggatgcta gcaccaatth gtatgcacga ccgtattagt agtcaacgtg tcgtatcgcc 300  
tacttgcaac gtagccaccc ccaaatacat atgtgcggag gagatgtcct ccgccgctga 360  
cccaccacag aatgctgcc 379

<210> 30180  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 30180

tttgactgcc agaagctaca aacaattcta ttgcatagac acacacgtgc tatgtagcta 60

caatttcaat ctctggagac gcttaaacct tcagcagtat atagcaatta gatatacaaa 120  
 cactatcact agactttgca tacatcgaag caccctatat aaagtaaaca aacttgctaa 180  
 agcaaggaac atggatcgat ctgaattaat tcccacaata aatacccaca agagaaacag 240  
 aggctcgac gtcacatcc acggccatgt gacctctctc tctctgctgc atggatatat 300  
 ctttaccatg gagccggaca tcaagcatat attgccaa 338

<210> 30181  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 30181  
 acctgcccc gggatctcta agtcagctgc aagctgtttt tttttcttgc taaacggcta 60  
 ttgtgataaa atgttgata ataatgctct cattttctgt gtgtaattaa ggtcctccgt 120  
 ccattcctcc ttcgaacgtt gacctcatat gttgaaatag gtttgccacc aaaaaaggaa 180  
 accattctca acagtagcat gtcgcatatg cagaatcaat ttataaggc attactgcat 240  
 aaggatctgt acgtcgcgaa tgcacgagga gaacgtaact tcttctaaat atagcaatgc 300  
 tactacctaa atgctgccat caccatatac tcttacacgg tgctgaacct g 351

<210> 30182  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 30182  
 tgaccttaaa gccactattg agtgatttat gttgatacag cgtcattttt aacatttatt 60  
 tcttaagata ctgctgatag atctatcgaa ataagatgtt tttagccttt cttttctata 120  
 ttatcttaac cgtcaataat ttactctatt tattgtatca aactattttg tttgctgtta 180  
 ctcagattct atcctataaa tgttattcta gttgaaattt gtacgtatta tctcaattac 240  
 tcgatttttt ta 252

<210> 30183  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 30183

gcaggatgct agctttagg attatggagc acccatcaca tgtggtacta tgtggtggtc 60  
cggcgatagt gcacaacaag gctttcacat tcacaaatcg cgcctaaact cccattccc 120  
tgttgtccac cttcaactga actcacgtac tcccacatag tccatatgct cgtttctttc 180  
aacaccgggt cccattaat tctccaagc ttccccaaca tccaggtaat acaacattca 240  
aacagcacia actatcacia ccaagaagac aaggcaaagc cataaaaactc ttgccaaaac 300  
ac 302

<210> 30184

<211> 379

<212> DNA

<213> Glycine max

<400> 30184

cgtgggaacc agaggtgggt aatataatga agtgaccaag atcaatcaga aatcataacc 60  
aaccaaaaac ataaataagt gataaccaa atgaaatcca aacagtcact attcagaacc 120  
acatagaata aaaacatata agactaaagt ccaaatacta aaagataaat aatgtgctga 180  
aagcaataat caaaatatca tagccaaaat acacgactta taagacacat agaattataa 240  
actaaattct aacaagggtg aggtgggtgg ggaagatcga aactctgacg aatgtaaccc 300  
acatcttctt caagctgtgt gaggcgaata tccattccgg caaagcgagt atccagtga 360  
tcgaaacgtt caccaacat 379

<210> 30185

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30185

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tttaattgca aaaaaaata attaaaggaa tatatattag tgaaacttca tcatttagaa 120  
tataacttag tttttctaac atttttctct tctgtccat taaatctctt ttacatttgt 180  
ctttttctct tttatattgc ctttatcttg tctctccca cttcttctct aagttaaaat 240  
taagacaaga atagaaacta gaaagggtag agtttggatt tttgcacat atatgcatga 300

tgcccttatt gacatgaaat cttcattntc accatatgtc taggtcacca aacaaatctt 360  
aatattggtg ttttttttta ctcgga 388

<210> 30186  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30186

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tgtataaatg gtcaatttca ataataaag tataaccttg ttcattcagg attgtctaga 120  
aaacatcgat gcagttcctt catacaattt tgtgtcatat attttgatgt tatttgttat 180  
acaaagatcc ctcttaagct taatggaaaa tttaactgtg caatcatatg atcaatggtg 240  
ctttaattat ggtgctgaat gttgggcaat taagggctaa caagagcata agatgtggtg 300  
cgcagatgaa atggtgcatt ggatgagggg tcacactaga aaagataaga gaaagaattt 360  
attaagagag aaattgtgag ttgcttttat acaggatata aggocataa tagcttggac 420  
acaagacaag aataccaata 440

<210> 30187  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30187

cacaacaaa ttttcacatt caccaattgc gcataaacct accaatccct ggtggccacc 60  
ttcaactgag cttaagtact tccacgtaac ccataatctt cgttctttta acaccgggtt 120  
cccaataatc cttccaaagc ttcccaacat ccaagtaatt caacatttca acaacacaaa 180  
ctatcacagc caagaaaaca gggcaaaggc aaaaaactct tgccaaaaca ccaaccaaaa 240  
tcacagcttt tctcacttaa agaccccagt aacaattcct tcatttcagg ttcgtaaccg 300  
gttgatngac tcanatattt cactggaagt ctctagtaca taaacctac 349

<210> 30188  
<211> 395

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30188

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ggtacctgga gatatgtcgc gngggtcagg agaccttgag gacgtcaagt ggggtggtat 120  
tgcccaaaac caagcttgac caatcccgac ccaaccggg catagtcagt cagtgagaac 180  
ctgtgatgta cctaagcagg caagctcctg gcagtcaaca gataaaagga acaaagacca 240  
caaagcaagg aggcttgtgt ggtggctggc cagctgtgaa tcttgtgtga tatatgggtt 300  
atggcctctg gtaatcgatt actaagggtg ggtaatcgat tacaatgctt ataaatgaag 360  
acaggaggct aagatgggtct cttggtatcg attac 395

<210> 30189  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30189

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ataaattaca tatctggaaa atctctatga cttttgaacc tgccgctggc cctgtcctac 120  
acttaaatta ttcttctctt aatgcctggc attttttctg gtagaaaagt gggttttgac 180  
cttacttcct ttgtctatct aactggggct tagttgaaaa aggggcacat tacacattct 240  
taaagttaag tgatttagnt ttctacatct gtatgtgact atgtgtggac taagggtgtt 300  
gatgtactaa tgtacttctg ctgtcatcct catcctggca cataccttgt gttggtacat 360  
gattatatta ctagcatctt agatgcctat aggcattgta ttcccatcaa tta 413

<210> 30190  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30190

tcatgctatt gtaaggnttt tagcacanat tccaaatgag tgttgtgata atttcatata 60

gaactatata tcagaatgtc attaaaaaaaa aaaaccaata caaacttcct caagactccc 120  
 cttaatatgt cattcataag actttggaat gtagcagagg cattagtgag cctaaatggc 180  
 ataactagtc attcataatg tccatggtga gtcctgaaag ctattttata cctatcctca 240  
 ggtttcaaca aaatctggtg ataaccagac cttaagtcca acttggagaa aaattcagct 300  
 ccaaacagct catcaatcaa ttcatcaact gttggaatag gaaatgtatc ttttaaccgta 360  
 atagaattca atgctctata gtcagtgcac accctccaag aaccatccct cttcttaacc 420  
 aanataattg gagaagaana tgggctctta c 451

<210> 30191  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30191

actaacctag aattaaaata acttaatggc attaacctan ggaattaaaa caaaattaat 60  
 ggctgagtggt aactgaaatt ggggcaacca aaagtcaccc ccaacagccc acaagtcagc 120  
 caccatttgg tcttccaaaa ggctgatgcc tangttgcca attggggcct tattacaact 180  
 tgaactacat cccttttagt tgattaaccc aaaacatatt tttggtcagc caactttaca 240  
 aggattgggc cattatttag acaaaactaaa cactctaaaa ttgaaacaaa gtgggtgtcat 300  
 ttagtcctcc tccatttggg ccatgatata actcacaacc ttggactttt ctctttgaaa 360  
 cttgggcttg tattcaaata gtatggacaa c 391

<210> 30192  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30192

cgacaataac ttttgactcg gatgttctat ttgtcccgta gtatctcgag acgctagaaa 60  
 ttcaaaacag aagctattag aaaaatcaaa cgacgataac tttttacacg gatgtcccat 120  
 tgagtcccat aatatatcga gacgctcgaa attgaaaaca atagcactta gcaaattcaa 180  
 acgacaataa gttttgactc ggatgtccga ttgtgtcccg tagtatatcg agacgctcga 240

attgaaaaca gaaactgtga gcaatttcaa acgacaataa ctttatactc ggatgtccga 300  
 ttgagtcgcg taatatatcg agtcgctcgt aaatgaaaaa agaagctttg aggaaattaa 360  
 gacgacaata acttttgact cggatgtccg attgtgtccc gtagtatctc gagacgctca 420  
 naattcaaaa c 431

<210> 30193  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30193

actgaaatta aacactgaaa cataaatatt aaccccaatt ataaaatgta cttaaaacca 60  
 aataataatc aaagtgggtc aaagaacaga aaataaaaaat tctatcatgg gtctctgtgg 120  
 gcaaaagggt catcatgtgg tgcagaaagg gcataatcca tggcttgggc atcatcctca 180  
 tcctcagata gctctagcac aggcgtagcc accgtcgatg cttgcaaaga agacaactcc 240  
 agcacagggt tggtcactgg taatgcttgt ggagtcattc ctagcgaatc cttcacagt 300  
 tccttctgag cagttggatc aatctcttgg atgtctggct ctttaataact angtaacct 360  
 ctacaacatc tggatcatcc ttctgagtag cttct 395

<210> 30194  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30194

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 gcttgatggg tgagatattt gatgcttgcg ttggaccctt ggaagaagat tgagaaaacc 120  
 gatgttggtg gaagatttct agaagctatg taccatgggt gcacctacat tntgatttgc 180  
 ttctatattt ttgttttggc cgatgtattt ttgacatggt tagctatatt ccaatttttc 240  
 agattttatt ctcatctcct ttaatgttga tgtatatctt ctccaacttc cagcttgcgt 300  
 gggagggggg tattagagat atagattagt ttagttagtt acaagttagt tactagtatc 360  
 aattatataa ggtacaatgt atttatgtaa tgagagagtt ttgctcattt gagcattact 420

ccaatattaa ttagttctac cttttcc

447

<210> 30195  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 30195

tctgtttatc ataattgttc ttcagaatgg agaacttcag aacaaactca aacctatcat 60  
gtcaagtaca actagcacac tttcatgttt tgcaagaagt tgtcacagag ttaaaggcct 120  
tacttcaagc aactattttc ttgggatatt ttagacttgg aggaagctat taaagttaga 180  
aaaaaaagaa gacctagttg tcataatggc tacttttggtc tgtgggtcct atgaattgat 240  
agagcatagg tgcaaaactt gagagagaag gtaggagata acctacactg tgtagaaacc 300  
atattcatct tctttccgta ctacatatgt gctatgtagc ttagaatggg tgtggcaaga 360  
gtgcatatag ctgagagctt taaagaagat tcaccctaata tagt 404

<210> 30196  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 30196

ttcgtcaccg cagcaacact gtagaaacct tactgcttcc tttatcgaca cctactgggt 60  
cttttccgac taccgacttc ccctttatct cagttagtaa ttgtttaatt tcaactgaat 120  
gtggctttta attgaaacaa ttaacacaga ggtagcagag aagaagaaga caaatttggg 180  
tttatttgca ccgcctagta gtagcagaca cagagaagaa gataaatttg cgtttgtctt 240  
tgaaagggtta aatattgtat gttatataga agtactaaca ttgtgaaaat ggggtcccata 300  
tttttcaagt ttatctaata tctcatatgg tgaaattata atattgtatc atactgatca 360  
cttcaataaa tgtcattata aaaaatatgt actttataat atat 404

<210> 30197  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 30197



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 caaatcaacc aatggtgttc aagcaaaaga aaatgttagt tgagcagatt atatgcagca 120  
 ggcacatcgc ctcatTTTtac cgcctactga agacaataaa agtggttaca ggaggaatga 180  
 aagatggaag aagccattac caaagccaaa ttaaaagcaa actttggcat tggaaccatt 240  
 attaggacca ttaggggtgaa tttttgacag cagcaacaaa gtttatgcc aatcttatag 300  
 tatcagagtg gaagaatctc tggccttaag atggtgtatt gaagtcatgt aagaaaggac 360  
 caaactgca ttacacatat tgtgatggca ttatc 395

<210> 30198  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 30198

ttagccatga tatcttgatt ggaacataat tttttcttct tttgcttggtg tgctctaagc 60  
 acaagaacta aatcttaata atgaagaagt atgttaatct taacttattt accttggaga 120  
 atttgaattt tcttgaaata caacaaatta tactagaaga ggggttgaat aatgtgttag 180  
 tcaaaatata aaatattttg gaagtgaag atgttataat agacaagttt atagaaccat 240  
 tgtctagtga caaaagggtga actatcatcc aatgagatgt aaaactttgt ctttcagtaa 300  
 aaatcttggtg tgtaagggtg gacaataatg gacaatgaaa tattttataa gttaatgaaa 360  
 aacagtaaaa atactttggt ttgtactagt tcactcaacc taagttatgt ccaattttcc 420  
 tttaaccaact a 431

<210> 30199  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30199

agcttgtatg atgtcgagcg tactgatgcg taccatgaga tgtctgcggg ggtttaaccc 60  
 acatgggagc tgtcataccc taatttcgtc cggggacctt tgcttgatga catgcgacct 120  
 ttctttggtc cttgtgaggt gcttggcatc catcattagg caatntgtga aattccagga 180  
 cataccgaan aacaaaaaaa atattgatgc acaatccgta agtttccgtg acaccccgga 240

aatcaaatgg aagcatcggt gcataattaa gtgagggtcc gtaacattcc gtaagtcaaa 300  
 aggggggatga ttatgtaatc cgcaagggtc cgtaacatta cggaaagaaa acaagtatcg 360  
 ttacgaaatt cgtaagtttc c 381

<210> 30200  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30200

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 ggagcataaa ccacaaagtc tggcgacagg tgcaaatttt tgattcacgg ccagttgggt 120  
 taccagggtta accaaggcat ctagtttacc ttcaagcttc ttagtctcgg ctaatggaga 180  
 tgaattcgtg gctacttcat gcactcctct aatgacaata acatcacttc tagtactaaa 240  
 ttgttgggag ttggaagcca tcttctgatg gaagcttgct tgtgggggctt ctatggaggc 300  
 tggatctttg agcttcaatg gggtccttta atgggtgattt tccaccatgg agatgcagtg 360  
 gaagacaaaag gagaagaggt gagaggaggc gccatccact anggaataag ccatggaaga 420  
 aggagcttca ccaccaaga 439

<210> 30201  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <400> 30201

agcttctttg agcaatgaca aacaaattcc acacaaacaa cataaccttc tagagacaca 60  
 ttaaagagag tcatcactag atctctctac ctctatcttt agttaaagca aattgttcct 120  
 atgttagata tatttggaca acatagaggc agctatcttt ccttacctag aaaaaagaa 180  
 aaaagatgaa gtttaaacta cagataaacc acatgtctaa aattagtttt tagcataatt 240  
 taaaatagaa aactatatat tattccgatt gtaagcaaaa tgagtcttta gagcctcaag 300  
 gcactacaac acaggcacia taaatttaac ataaaaattc acaataaaaa ttggcttcaa 360  
 agccaagaaa gaacaaagga aaaaaagaa caaagtttca gcaatcatatc ttggggagtat 420

<210> 30202  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30202

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 cacgngtta cttctacaga ggtgtatgaa caagcatcca ctaatcaaat cttaccctga 180  
 cataggtgag gttgcatttg ggctaagagg aagagctatg atctctacat tcatatacat 240  
 agaattgttt ttagtggccg ttgagcttct gatattggaa ggcgacaatc tagannaatt 300  
 gtttcctcat atgaacttca naattggtag ccttagaatt gaaggtaaaa gtggttttgt 360  
 ggtgctagct gctntgggtca tactaccaac aacattgggt agaagttngg agctttggct 420  
 atgtttctc 429

<210> 30203  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30203

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 aggtaagaag attgtttcta aagttaaaaa aattntcaat gcataaaaact ctctgttnta 180  
 atcaattaca aggctaatcg taatcaatta cacaagtgtt tgtagcttgc agagatatct 240  
 tagtttcagt ttaatcgatt actagttaac cataattgat tacataaatt agttgagatc 300  
 atgtttgatt tttcacgagt ctctgtttta atcgattact agatgatcat aatcgattac 360  
 tacattctta aagggtgtcc cagaagtgat ngagaactct ttaatcgatt acatcaa 417

<210> 30204  
 <211> 391  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30204

ttatcnnnttt atattggtat accatgctac agccgctccg gccaaagctgt cttgaaagaa 60  
atggaccaat aacttttcgt ccgcagaata cgccctcatc tttcggcaat acattcgaag 120  
atgccctttc ggacatgtcg tccctttgta cttatcaaag tctggtactt tgaacttagg 180  
agggatgacg atgttgggca cgagacataa gtttgctaga tccgagaatg ggtaatttcc 240  
gaggcccttt accgctctca gcctctcctt aagcgcatca atctttccct tatectctgc 300  
gaagggaaca tattcgatta cgggtgcggg tgaagatggg acgtggcgga ctatgtntgg 360  
ttgngtagt tcatgnggg atggatcttt g 391

<210> 30205

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30205

tgaaggata atattccggg taagtttttg ctattaaatg tcgcgtacct ggaactattg 60  
gaaggatgtc ttatatatgg cataagagca attttggtc aagtaaagggt gtgaagttga 120  
gtctaggttt gtaaattaag aaaattaaat aatatactcg accaaatgca ggaaatatta 180  
cccgtattgt agaaaaaag ttccttaaaa aaagtccgtt cactatagta cgtacatata 240  
antttgatat atttaattta gtgaatttct ctggacttga actcataact agccagatga 300  
agtagataat ttttttttan atcaaattca caataaaaca agaaaaatct ctccatgact 360  
tgc 363

<210> 30206

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30206

tagcttgtat gttagagtag taccacagga cgttgataaa acaaaatact aaagacacat 60  
aattgggaca ttttactcaa ctatctttga taactcttcc tatcccgagg atatgataat 120

ggagcatctc aataacaaat aataatggca tatgatagac ataagtgcac gcatgctaata 180  
aatttaataa tttcatgttt taatgtgcac attgataatt gtgtgattag taaaatcaga 240  
tacagttgta aactttcaca ctctgactca tgagcaccct cattcccact atttaattga 300  
tagatcccct ctaacaaact gtctataact atntgtcact tcccttctat cttanatgag 360  
atgggtcatc gtctcccccc ccccccttca tgctctagag gatacaa 407

<210> 30207  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 30207

gcttgaagaa gtttgacttt actatcctaa ctcccttgag tggcattcgt attggttggt 60  
atcttgtatg ttgcatctta gtacatatga tatcgtattg catcatgtat catcatgggt 120  
agtgtaaaga aaagtcttct caagaggcaa aaaatctttg ttttaatcga ttatagggtc 180  
attgtaattg attacgacat gttgtctaaa gcttgaagag ttgagtctca tatcggttta 240  
atcgattaca ttggtgtttg agacaatgat tgatttattc aagagtctct actttaatcg 300  
attacgaagc ggattaatcg attacttctc gctcgtctag tagttcaaaa gtgaacaaaa 360  
acactttaat cgattactta gagcatctaa tcgattacat tgttcttgag ttatttt 417

<210> 30208  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30208

gagagatgaa ggaccacgat ccagacagtt cgagagattt gcggagcgaa gatttgcaga 60  
gaccagagcg cgaacaggaa gccgccctga gagccagaga tgaggctgcg agcgactgag 120  
aggccctaga cgcggaagag acatccccac aactagtacg acggcaaacc gtcaacctct 180  
acactcccgg ttgcaaagga agcagactag ctatggaaag ccaaatcctc tgctggatct 240  
cccttgcaga tactngatgg aaatagcagc atatctagac aacgacaagc gcatgatcac 300  
tgagctatca gaacagcata ccgccatgct actgcctaga ccacgtagat gcatgggctg 360

cgaagattat acaccagtgc aaaccg

386

<210> 30209

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30209

cttctacaga atgatgaaat ggattcggct cttttatnat gttcttatgc agntttgatc 60  
tgcagaatgt tttgctattn tgggtgtgat acccacgagg aagttgttgg ttttgttgag 120  
gtagagtttg aagtgaagac caaagttttg aggcagatgg tgtacatcaa gtctgaagaa 180  
gctgggttta atggattgag aatagtagaa aagatcaaac agaacaagaa gatacagaaa 240  
ataagcccct aagcctcttt gagcagatga tgtagcaaa gatgcatgag ctcatgagga 300  
tacatgaaga agactatgct aagcttaagg agtgctctga gtatattgta gaagcaagct 360  
tcatgatgaa tcaagattga ttcanggagt tttgatgatg acaaagatga tngacataag 420  
ctcacaagta aagatcactt catgat 446

<210> 30210

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30210

tgaaatcgaa ataaggatat ttgcgactca atctaaaaaa taagggagag ntgtctgtta 60  
cgcgatgact ggcccgggac ctaaacaacc gaggcacaac caggtcttta gctccacaat 120  
gcaccagggg gaatcatatg caacaatatc cgacgccatg gaatgaccaa gacaaactct 180  
aaccaccaa acaccttttc taaatgtaca aagaccaaac tacccaaccc tgctctcat 240  
agctacgcta ccaggataac taatacacta gaaaccaaag acaacgaaaa caagcccaag 300  
tacgaaaaag ggaccttgca tagaacgaac aatgcaccaa taaacccatc cacgaacgaa 360  
atgatataat gaaaacacaa gaaaccaccc attcccaata cgaagcaagg aaacaagcac 420  
ataatctaac gagaaatacc aaaagcaacg 450

<210> 30211

<211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30211

gaacctaact atttaagaat ttcattataa anaannnnnn nnngaggaat gatctctaac 60  
 acaanaannn gnnnggaggn aagnaacgaa gcagagcacc ttgtttattc tctgcaacta 120  
 cctgaaggat tttttgtgat gacagtatac aatggtaccg acttgacttt gagtgccatg 180  
 gaatgataaa gatccaactt tgtattcacg gtggaataaa tgggtgtaat gagaaaaaat 240  
 tgattgggtt gaacaactgt agttttattgt tgagatactg tcaatggctc atggatattc 300  
 ttgatgcttg gctccattgg ggcctcaggg gaagataata gatgaagctg ggaaagtgct 360  
 cactatggag ctaaataata tgcctagttt tgaacacgcg atcaatctgc tataggttat 420  
 ttgttgcaac tgagaaagag aaatgtggtg acaagggtta ccttagatca ctactactgc 480  
 atagtattgg 490

<210> 30212  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30212

atacaacgga gtagtaagaa acagtaaaca cagtgaaaaa gcacgagaga tanantntna 60  
 annannntnn nnnnnnannn cnaannnnnn nngaaggaag gactgagtcg tagtanntnc 120  
 gncannnnch nnaannnnnaa nnnannnnnaa nggnnnagaa nnaaaaagaa naaaaaaaag 180  
 agaaaganga aantatttat agattatgag taaagaaaag aagaagagga aggaggagga 240  
 gagtatagaa tagaaaaaat gaaaaaatga gaagaganga taaaagaaaa ggaaatgaag 300  
 gaatagaaag aaaaaaagag aaggagagaa gggataaaag aaagaaagaa agaagggagg 360  
 agagaaaaga atgaaaaagg aaaaaaagga aaaaaaaga aaaaaaaaag aaaaaaaa 420  
 aaaggaagaa agagagaaaa aaaaagagag aaaagtaaag agaaaaagaa agaaaaagaa 480  
 aaaaaagaaa agaggaaaaa aagaaagagg aaaagagaag agaaaaaaa aaaagaaaag 540  
 ataaaaagaa agaagaaaaa aaaaaa 566

<210> 30213  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30213

agcttatgac aatttgaaat tctcgagagc ttctgaagat taattntgag cgtctcgata 60  
 tattataagt cttaatcgga cctacgtgtg ataagttatg aaccatttga atttttgaga 120  
 gattccgttg gttaatttcg agcgtctcga tatattatgc gcctgaattt gacttgcctg 180  
 tgaaagggtta tgaccatttg aatntctcaa gagcttccgt tattcaattt cgagcttctc 240  
 tatatgtgat ggcgctaaat tggacatccg ggataaaagt tatgaccatt tgaatttctc 300  
 anaaggttcg gtagttcaat ttcgagcatc tcgatataatt attcgctga atctgacatc 360  
 cgtgtaaaaa gttatgacta ttttagttta tcgggagctt ccgttttc 408

<210> 30214  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30214

gtgtatggac catatcgtag ccaattgtgc tcatcgataa tggntccagt ttaaactgta 60  
 tgcctaagag cactttggag atattaccat tcaatgcttc ccacctaaag ccgatttcaa 120  
 tgatggatcg tgccttctac agaaccgcc gagaagttaa gggagatata gatctcccac 180  
 tacagatagg cctcacacc tgtcagggtta ccttccaaat aatggatatt aacccccctt 240  
 acaactgtct gttgaggcgt ccgtggatcc tctcagtggg agttgttcac tctacactcc 300  
 accaaatggt gaaatt 316

<210> 30215  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 30215

ttgtgtagga tggatctagg atatcggatt aaatactcat gcaaataaac ctttcgtctt 60



caacactaaa ttagggaaaa ctttctattc atcttgccca attaagaaga aacctccaat 120  
aaccgaccaa tgatgatagg aggaaaaaga gtgtggcctt ggcagaaaca tcgaacacaa 180  
ctttactcac gatggagtga gtccgaccog tgtcatgatg tgaacaaggc cgatgtgggt 240  
gagatatgga tagatgccca tgggggtgtg gcttggattg ggttgggtgg ggcattttga 300  
tg 302

<210> 30216  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30216

aaaaccatta aataaaagct gagtgacaaa atattaataa tactttaatt tatttaccaa 60  
tgcttttctt attgaaatta gtagaaagca ctcccatat gtcagtgact tcaaaaaaat 120  
ggaaccacat aaagaaaatg agagtaattt tggatcttta tctacctata ccaattggat 180  
tgacattatt caataattta aagttactaa aaaggttcta ttcaagacct ttntccactt 240  
caatagactt ccttggtata aatataagaa aaataactga tttacatagt cgacatcggt 300  
taattatatt aatcttatta aagagtaatt ttntcaact attctgtatg gaacttntat 360  
tatgtataca aaaatcatta aactaatact tc 392

<210> 30217  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30217

agcttttatt ctaattgcta agcgacagct tattcgtggc taagcgtgac ctattatcgc 60  
caagcacaat tccttatggc cataattgag gtccatgacg ctaagtgccg gtcatggcag 120  
ctaagcgaga ttcattgtgg taatatgagt gctaagcgag tccctctcat ctaagcgcat 180  
gctcctctgt acttaagatg catcatttta gctaagctgg ccagagcctg nottagcgac 240  
agttgcaact tttctaactt gtagaccttg ctaagcggaa gaatcaatgc gctaagctaa 300  
gccttttctc ccanaaaaaa aactt 325

<210> 30218  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30218

agcttgngtt gngctaata gngaaangan ngaccaaagg gaagacaaga gccatatcta 60  
 cggtaaattg cgtgttgacg ggtcaaatat tgattcggcg gagttctagt tgtaaaacca 120  
 gttcatgaaa gtttacatta atgttataga cttgtgtgag atgagagttt gctccaaaat 180  
 taccctattc tcattttcac ttctcaaacc ttgaaatcca ctagattgac gggttttata 240  
 tacctacatt ttgagttgct ttggctgaa gcttgtctct gggttacata tgatttatac 300  
 atgactaacg acttgttaga tccaatctac gaaaatatgg atgat 345

<210> 30219  
 <211> 98  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30219

tcatgcgtag ctaccatgcg tttaagggca ccaataactg ccttaccata atacgcatcg 60  
 ccatgcactc atctgagtac tgatgtactc attaagcn 98

<210> 30220  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 30220

cactggccat cgtttacaac gtcttgactg ggataaccct gtcattacac cgcttaatcg 60  
 ccttgtgca catacccctt tcaccagctg gcgtaataac gaagaagctc gcaccaatca 120  
 cccttcccaa catgtgcgca ttctgaatgg ctaatggcgc ctgatgagat atcttctcct 180  
 tgctcatctg tgctggattt cacaccgcat atggagcact ctactacta tctgctctga 240  
 tgccgcatat ttgatccaga ccggacactc ccggacatcc tgtgacgca atcctgtggg 300  
 gaagcaggca tttaaattgc gatattgtga gcgtatataa gattaaatat accgtattct 360

atttgtgaga tatgaaggat aatg

384

<210> 30221  
<211> 407  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30221

gtgcngatat gagaggtgag cgtgtctatn tatkataact ctgcactgga ccgatgtgag 60  
ctatgcaacg accataggag aaatgagtgc gagaaatgag acgatacatt tactgccgac 120  
tatgctatgc gctacactga gtacaagact ggaatgggta tgaccatatg caatgtcgat 180  
cggaccgttc tgttgtcact ttcaatcgtc tgtagttatg aggcgctcta atatggtcac 240  
actggatata tgttgtgacc atctcaatag atccattatg ccggagcacc atgaacgata 300  
cacatgatat aataatactg cgaatctgac gcaactctgca taaggtaaga ctcattttaga 360  
tatatgagag cgcccacatg actatgtaca gcgattgatt cagagat 407

<210> 30222  
<211> 496  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30222

aggcggttcat ttctctgnac acancncann natnatcgtn cccgggatac actagagngg 60  
ancngcatgc atgcatgcaa actttattgt gtttcaacac ccagcgncaa aggggggaggt 120  
cctataattg catatacttc ctccccccac gaacctagca ttttccgcac aaaccatcta 180  
tggaaaaaag atcatattaa actacaatcg ctaacacaac aatgggtgtga attgattcac 240  
ataacacggc gattcgcgaa agttgcagag ttctggaaaa cctgtataaa cagatcatg 300  
tgcgttagaa cggcacacac gtgtatcatg aagtttaa atccttgtat acgcacttct 360  
gatataggcc catgatgaca agcttatttg gcatcagttc tatatgaact ggtggaagaa 420  
atgcgtgctc attgcaaaga agcggcacta ttattgcgtc tgtctattgc cagtggaaca 480  
tattgggttaa gatacg 496

<210> 30223

<211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30223

cgcatgctat ctttcttgtg ccatacctgc acacgcgaac atttggaag ttagtttttg 60  
 tgggacatat actcttaagc agaaatggca tataacctcc tcccataaat acaaacaatca 120  
 atgtatatat agagcaagct tatgtgcatg tttccttacg aacgttcact tgcggaagat. 180  
 atcctattaa ccgaaaaaat gcacccatat acaatcaagg cagctntgtt agctagatta 240  
 tttacacgta cttccaaggt gtatttggtta ctacatcaca cacatctcct tggctaaatt 300  
 cacatacatg catactccaa gcatttgggg taccaaaaat tgcacatgtg cacatcttgg 360  
 tattttcta acctatacat acacgaactt catgatgaat cttgactatc tacacaata 419

<210> 30224  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30224

tttctcgtc tccaccctat gcanaccgc cacgtgccgc taatagcgtg tctcgtcaa 60  
 cgtaccggca aggaattaca accatatatg agaccacccg aagaaactac ctctccgaat 120  
 ccaaacttcc ttcgcttgta gtactgccct aattcccaa attcgggtct gtgctatttc 180  
 ttttttatta ttgtactttc ttctcagatc ccggaggcct cttccctccc tgtctcaaga 240  
 gaattcccc gattttctcg agaaagtga acggaattat gagctttcag gacatctaag 300  
 ccgggcgccc cttcggttcg aggcgcgggt ngatgaatgg gaagcaagac cccacgcaag 360

<210> 30225  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30225

agctttgttt aatttgtttt gacaataact ntatacacgg atgtccggtt gaggccgta 60  
 atatatcgag acgcctcaaa tttagatccg aagctctgag aaaaattgaa ttgacaataa 120

ctttatacac ggatgtccag ttgagtcccg taatatatcg agacgctgca nattgaaaac 180  
 ggaagctcgt atgaaattca caccgacaata actntntact cggatgttcg attgaatcgg 240  
 gtaatatatc gagacgctca aaattgagac tagaagctct gagcaaattg atatgacaat 300  
 aactctatac acggatgtcc ggttgagtcc cgtaatatat cgagacgctc ccaattgaaa 360  
 cggagactct tatgaattca aacgacaata actttttact cggatgcccc acagagtgtc 420  
 gtaattttatc 430

<210> 30226  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30226

ccccaccan ngggaattca gtcangacat cgnaataaac atcgaccggg aactttgatg 60  
 acctgaggca tgcaagctta cttctttntt agtaatgacc cactanccta gagggaatat 120  
 acttaatggc cttaacccta ggcattgaaa aaaactttat ggctgagtgt aacttanact 180  
 tgggtgaccc aaaagcacc ccaacagccc acaagtcagc caccatttgg tctccccaaa 240  
 agctgatgcc taagttgcc attggcccct tattacaact tgaacttaac ctaactaaaa 300  
 gccgctttaa ttgattaacc caaaacatat ttttggtcag ccaactttac aaagattggg 360  
 cccatatttt aaacaactaa caccttctaa aattgagaca acatgagtaa ttagatcctc 420  
 tccatttggc cctaaaaaac tacaaccttg actttttctc tagatactgg gctggattca 480  
 aatagttgga caccg 495

<210> 30227  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30227

agcttgattg ctttctttgg ctgaccctaa tatatgttac tcaaccatga aacaagtttt 60  
 gttggataag catgggcctt gaaccaagta atttgatgca actatatcga gcanagagaa 120  
 aagtcatgaa atactagagg ggtcatgcat atcctataat gacttgctgc ttggctctat 180

cagtaataga aacaatcctt ggatatagtg aagatagctg taaaccaagt ttgatttgat 240  
 cccaattta aaggatattc tttgcttgat gatataaaaa aagattgtga aggggtgatcc 300  
 catggtcaga atgatggttg catttaaatg tcttatgggg aatctattat ttatgtgctc 360  
 ttgtgcaaca gggttgtccc tttgtattga gt 392

<210> 30228  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30228

agggaggtga aactagtanc nctgcgacac anatacacia gcttatcaca tgtanctggt 60  
 ggcattgacat tngaaggga gaagcatttg tgttttggag tacttngggc cactatgtga 120  
 tgccatggca aagtcttggg gtggcccctg ccctcaactg gcattcttctt ggcagcaaag 180  
 tcaggtaatt gttggagaga tgtggtgact atgccctgaa ccctccactg tatgtcttga 240  
 ctcattggcct cattcaaatt gtgacaacag gcccataag gtcggattca tgaacaccct 300  
 ttataaaacc tagctggagt ttgtcattgt caatcacttt attactctat gaagagttta 360  
 aaatcagcgc ttctctatgt atcttcttag taagtttcct ttcttgcaat ttgcatagga 420  
 cctctatttg tggcgggccg tctctctttt gcttatatgc ttg 463

<210> 30229  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30229

caattatgaa aattaatttt tgtgcgagat ttaatgttgt cacatgagct atacttattg 60  
 gataaagtat ataagtatac tactaattac tcatacaaca tctaaattaa taaaaaagat 120  
 tgcagtgtct atataataat tattagaaag atatatnaag agattaataa aaagatgtat 180  
 taggttctat tgatagaggt atactaataa aaaaatacaa cgaaattcat tcagcatcgc 240  
 tatttttttt ttaaatttag aagtatgaaa tgaaattaat ctcttttgca ttatacagta 300  
 gaaatatata aaaaataaaa taattatttt atttatgatg gctcattcta gtgtatttca 360

cttaaagttt ctccattgaa atttctctta ttgattctgg atc

403

<210> 30230

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30230

gtgctgcgtc gtantctaca cnaaattatc taagctttga gatactangg atntgatgaa 60  
gaaattgacc ttatctcatt ttttgaatga gggagcgaca atcggatgtg gatttttagta 120  
tgttgatgtg agtcctttgc tacgtggttg gggatcaatg atgaatgatt tttatgaatt 180  
ccgacctoga gacattagcc attgattggt aatcatgtcg tcctcataacc aatgtgtgtg 240  
gaggagaaat cctatattgg tgaatttcac ccttaggtcg ggagtatgta ggtttactat 300  
attctctttt aggtaatgtt acttgtcaac tgcattatat acttgcccta agcctttgta 360  
gcaaaatgtg gcaaatgcac tgatattatg caagtcctat ggtacaatct ttaatatcca 420  
tcggacttga tgatttggtc ccttcccaat ttatgacgag gtttggcatc ttggcgagac 480  
ttggtgaan 489

<210> 30231

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30231

aggtcttctg tcnctcgaca tncnannanc natnatagna nngnggacnc tccggaggcg 60  
aaccgcgagg cagcgagccn ggcttttttt cttttttttc aagccaaaac tgaggggggat 120  
ggggccctat acctttgaca cactcaccga cacctaagtt ggtaaccaat tatggcacgg 180  
ggtgaaaata actgggttca atctctatat cctatatttc ctccataacc tacggggtgt 240  
aacatgaccc aggatttgga attgaacttg tttgaaactt aatctaactc gcaaaatgtg 300  
tctctatccg ctaagccttg gatggaaaac cctgcactcg gtattcaaat attttctaaa 360  
gataatttgt ttgcagtgga cctcaataat ttattacttg gactttaccc ctttatccga 420  
acttttttat taaataaaac tcatactttt attaaattat gcactatata gccg 474

<210> 30232  
 <211> 591  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30232

cagccccgat ggacatttgc ccaggttacn ngncnacnna tcagngcngn aannnanattg 60  
 ctatggnnac gcgcgcngga gcgcgactcn ctagtacgag ccctggacac gcgataggcc 120  
 antgccanan gcanttgnaa ttttntnatg ntatancagn nacaccacgc cctnncgngc 180  
 gggggacnac gtggtagttg taatactact actcctctaa ttaattgaac attcttggag 240  
 ttcgattcaa tttagaaata aaaatctacc aaatagagaa atgagatcta tatatttaac 300  
 tatacttttc agaaaataca tgcactctaa taggcaccaa agactatatg ctataccact 360  
 cctaaatcta caattaaagc tacgtagaga agctaataaa aaaactttat attcaataga 420  
 atgcgaatct tacattaaat aatcatacta atggatgaca attatacatg tgtcattata 480  
 taagatctta cgaatttaaa atcacctcaa tatatatccc gagaagtcac atctacaata 540  
 tccccgggta ttaaagttac ctattggggc tgattatacc cattctatcc g 591

<210> 30233  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30233

agctttatct actttgatgg aatgaatcca tatggcaatn taagcactta acacaattca 60  
 tggccaattc tactagtaat ntacaaattt tccttccttg gttgtgcatg cagtgaaaat 120  
 acatgatgtt gtcgatgatg atatcangcc caagacagcc aggaaatgac attgatgttt 180  
 atctaagtcc gttgattgaa ggcctgagaa agctgtggga cgaggggggtt ctagtgtntg 240  
 atgggtttca gaatgagact tttctaatagc atgcaatgct gttttgtaca attaatact 300  
 ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgccccatct 360  
 gtgaagaaga cacaagctac atacaactga nacat 395



<210> 30234  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30234

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agcttcatta agtttcaaga tngattcaaa gagtggtgag gatatcaaag aagatgacta 60
ancgctcata agtcaggaac acttcatgat aacacagctg atgatctcaa gaatcaaaga 120
atgagtttaa gattgaatca tgtacacttc aaggatcaag aggaaagttg aattcaagaa 180
tcaagtttca agattcaagt tccaagaatc aagatcaaga ttcattgactc acgattcagg 240
aattaagaga agactcaatc gagataagtt ttaaaaagtt gtttttaaaa aataaactct 300
gaatagcaca tgaatgtttc tcaaaacctt ttaccaaaga gtttttactc tctggaaatt 360
gattaccaga ttattgtaat cgattaccag tagtaaaatg attctcaaag aacattcaaa 420
ct 422

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<210> 30235  
 <211> 115  
 <212> DNA  
 <213> Glycine max

<400> 30235

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atgctctatg tgcgcactgt gctatcaata ctaaattcta gtagtgccct tgccctcgatc 60
acgcacatgc gtgctaagtt aggagcattc aacattgggg aatagtttga tcctt 115

```

<210> 30236  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30236

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agcttgactc gctcatatta ncatgannat ctactatgcg agtaatttat tatctatctt 60
ccatctgcc aactcatga atagatatcc ttacgacccc actaatcctt tatatgtttg 120
acttggaag caatttgga cgccatttcc agtttggtcg aaagattgaa gacttgatgt 180
tcaatgatgc acctgaagag ggttggtgtg ataattgctt ataattcctt atagtttctt 240
gctatggcac atctagtcac gtctagaatt ctatttatga aacaatctgg ttgcaatgtg 300

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tattagttac tctggttgaa atcacgaggt tctagatata gatggcggaa gagagata 358

<210> 30237  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30237

agctttttta taattatcat cctctgaaat cagntcagag tatgcaagct gccaatacca 60  
 tcacaaaaac taccactcac cacaatcaca tagtgtatac aaaaaaatta tagaatataa 120  
 ccgctatcaa tctttcccaa tgtgttacta gataaaatta ttagcatgtt tagattacac 180  
 gcaagaatca attctaccct ataaaataat ggtgatacca tggaaaagta taagcaacta 240  
 tttgtggttt tgccttcacc atgaaaaag tagctgttcc tagtaaagga cagtaggata 300  
 acattaacat cagaaaggac caaagtcatt agcataggac caatattagc atcaagtttc 360  
 cccttgatt tcatacacac agagagctgt aggtcttatt tgggtccgcat caccctttgg 420  
 ga 422

<210> 30238  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30238

gctataacac tcaactcaact attagtatga aagaaataa tcttgctgat atcncgaaat 60  
 actcatgatt gtgtatgtga ctntaaaagg tcatgtgtgt gtcagtcact ttaaaaggtt 120  
 atatattttt ttttatttta atgtggatca ttcagataat agacacatgc accaagcatg 180  
 aacgaaacta gaaaaatatg ttaagggggc aaaattttta cacattatan acaagattaa 240  
 aaataactaa attttaatta tttattatct aaaatgtagt ttaataaata tgaaatatta 300  
 aataacatat aaaagtggct atnattacct ttaatgcaag attatacgga aattgttgaa 360  
 atttgtggta taggcacatg gtggaataga tcaaaaccat tgtttttctc taaaatgtgt 420  
 gtttggttct acgatggaga attattttcca atttatatt 459

<210> 30239  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30239

tcttctttnc ttaagtggta tccggcatta cattgagact cgatccattg tcgataaaca 60  
 cctttgcgac aacatgggtcc atacactgta ccgacacatg aagagccttg ttgtgtcctc 120  
 tcccctctac gggaatctct tcttccacag acgcgatata attgatgggtg gttatatgat 180  
 taatgatgcc ttcaaaaccc tccattgaga tatcgtgcgc tacatgggca tcattgagga 240  
 cgtttatcaa cagcgtacga tgaggctcgg agtttatgag cagttcaggc aacgacatcc 300  
 ttgctggagt tttattcagt tgctcgacta ccttaaactc gctgtgttgg atgacgcgaa 360  
 agaactcatg ggctcttcc a 381

<210> 30240  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30240

cgggccctcc ccnnnnnnnn nngnrtggaa agtcangnan cgnncnctn gatnaatnng 60  
 agcgnagctc ccgtggagcc tcttgagtcg atgtgcacgc atgtttgttt cattaanagg 120  
 cgtctcgac actcgggagg tgggtgattaa gatcacaacg gccaaatcat ggccgctcgt 180  
 atagtgaaga tgcatacctt atagcgagat gattctgcgg taatcgaaga ctcgatca 240  
 tcctatcgca gtccttctt gatactaatt ctaagagcat cacatagaaa gcttctccat 300  
 aatcatatct gagagttctt tgacaagcga tctcaggaag ctattttgcg atgctagagc 360  
 cttatcgatc ctcacacctc tatcaagtat atgaactacc gctggaatta ttctcggaaa 420  
 tgaataacga caccatgtat ctaccgtcct acatcatcac gtatgcaata ctatctgtat 480  
 attctcgcgg tgtacatcgc acacacactc tccgcatact gtggaccg 528

<210> 30241  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30241

attgtgcaag caatcaatga agcaaaacac accaaaagat tatgatgatg gatgactcaa 60  
atgctcacia atgtgaactt atcagtgttc aagtgagcgt ttcaatctat catgacatgt 120  
agaggcaaaa caaagatttc agatcgaga atgtcatgag actattatct ccagaacaat 180  
taccatttc ttgagcatat gctacagttc agagaaaaat atgcatagtt gtacatacaa 240  
acanaattga cctaaaatat taaactagag acccaacaga actaacaat ttaacacgaa 300  
cgaaactatc agaactagca aaacgcaaac caatgacact ccccccccc ccatacttaa 360  
tacacatggc ctaat 375

<210> 30242  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30242

tttcatcaat tcacaaacaa atctttgagt gatgcacttg aaatatttag aggattgttg 60  
aganagatgc ctactcatgg tttttttgaa ccaatacaac tcaacatatt tatagatgag 120  
ttaagaccgc aatctaagta gcttttagat gcttcagctg gnggtaagat caaaatgaag 180  
acccttgagg aagcaatgaa nttaattgaa aacatgggtg ctagtgatga tgccattntg 240  
agagaccgag cccacatctc aacaaaaaat agtttattgg agcttacatc acaagacgct 300  
ttgttggcac anaacaagtt gttatctaag caactggagg cactaacaga anaacttagt 360  
aagttgcaac tcagcttcat tttgcacaaa cttcacattt tt 402

<210> 30243  
<211> 530  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30243

caggtagtn cttgaaantc gtcgacacna nacatatact cnagcttcta tatcagctga 60  
agccgtggta tcaataagcg acaagttgag tcttattcan attatgagag ngatatctgt 120

ttatcttaag tgagaggaga ttctcccgag atatcttgag tgattgcaag aacacccttg 180  
gctgtatgca aggactttca caacctttgt gagttgccct cacttggaag agtgattgtt 240  
ttcctcgctt tcgatcatca cgccttggtc ttccagacca caattccaga aaatccacct 300  
cttgccagaa ttatctcggg gccataactc ccattttacg cactcaaatt aagtgattct 360  
tgagcctaga ttgaatttca gaacgagacc ttccacctgg gtgtaggaat cacctcattt 420  
ggagccctgt agctgcaggt attgccattt ctatatttct gtgcagcca cacttaacct 480  
acgggtgtacc atcccattca tgcattgttat gccagaacc accttattan 530

<210> 30244  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30244

tgtatctttn tttcttgctg cccaatgcat ctagtagtgc ctatttcagc tgaaatggaa 60  
aagcaaccgc ctacttgga aaatgtatat tgttcccgat gaagacgacn gagacactgt 120  
ctcgtctgtg tcagaacttc cttgctgtgg catcctcaaa gactgtctcc gtctgtcaca 180  
ctcgactcac accacacca attgtgataa acgcgctgct gtaatataat tanggggtgct 240  
ntaatatttn ttttattaat atgattgaac caacaactca catatactac ctaactgaga 300  
gaattttgat tntgaatntg aatttcaaca cataattagt tgaattttta ttagataata 360  
tattattaga tctgtttatg ttagttcact attgatcggg taatac 406

<210> 30245  
<211> 507  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30245

aggagtgcac cncctangat tngctgcaca nanaatacac aagcattcgt atgacctta 60  
ccatgattnt gtcctttag ctcccttaac caatttctta agaatatggg caacaaccac 120  
tttggttaat ttataatttg atgaccgggt agaataacg ccattacatt ttcttctta 180  
ttggtttttt tttaaccccc caccatcct atattatctc caggttgtaa ttcttgtgt 240

ttctgttggc ggagtccttag gccgagttct tgcttgttct cgaggggttgg gtttatttgc 300  
aactggaaga cataggtgcg ggagacaaag acgtacgtgt acggatatcg ggctgggtctc 360  
tggattggat tccattggac agagcactac tattatcagg tttacttgtg atgatattaa 420  
gaaaagcacc aagaatctct ccagaaatac atagttggaa gaggtggtac aggattggta 480  
caaggctttg cttctaatag agcgaag 507

<210> 30246  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 30246

cagccttctt ttttgattag gaaaatttta tccaccctaa ttaagttgga aatttaggtg 60  
acagaaccaa aattaaacct gctcttaaat aaagaattat ttcttagaag ttaatggtaa 120  
tggactaata attttaacct tatcattcca ttaccaatca ttattgatta taattttaag 180  
aatatttcat aaaaatcatc aaatttatta tatatgatgg gttctgatcg gatgaaagtg 240  
taaattattt tacagtgata atgtataatt ggttttctca atttttcttt gataggacta 300  
gtgctggtat ttatctaaag aatgaaaaga tagtcatgta acttccaacc ctgagcaact 360  
gaatgcaact act 373

<210> 30247  
<211> 533  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30247

gggattctgg ccctgatcat ggcacaaca ctaacaagct ttgccacaat cacacttgtg 60  
ggtctgggtc tttcctcgta ttattattat caaatttgcn cccggcccaa aaccacttac 120  
taccaggatt ctgtgctttg tctngtgaga agtagttggg tgtaccaga ccaagatacc \*180  
gcattcttgg gttgagaaca aagaattgcc ttgtgcttgc tgaggtggtt attattaccn 240  
cganggaatc atttgattgg ggttggcgct tattaacat ccccaaaca cctgtcttgg 300  
attgagatgt tctttgtacc aaataccac attaacgtta ttgggaataa cctggtgatg 360  
tgccattcat ttcttctatt ttctaaacc tttttgcacc atgttaatta ttgattgatc 420

ttaattgtca atttattacg caggtatatt atttgggccc attaagctta tgtgatgttc 480  
 ttatctatatt cagcattaat gaacattggc ttgatctgct ttggcttgat ttn 533

<210> 30248  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30248

ccccaggggg nnnaaggggt ggcttgcctt gtatatctgc ganaccactn ctacnggagc 60  
 tgctntgagn agacctagat gatggcagcc tcctattatt gtggcagggc ggccctccctt 120  
 cactttcttg tctccaacgc gacctctgac cactgttctt ccttcccgcg atgcttcttt 180  
 catggtccgc ctaatgggct tatagcccta aacatacttt ccacgaattc cctgggggttt 240  
 tatcaagcta gntatgctgc attgtctttt gctaaaccca tcccgggtca taaaccgtcc 300  
 ctacataact cgggccatca taccgccgca tcggacagac aagggtgccc aaagagggag 360  
 tccacggagg aaatgctgac cacctcaaaa gactgganag cggtttctaa cgattcttct 420  
 gcggcttcca cataaggcat ggaggatggg cagcttacca agatatcttc ctgcctgac 480  
 acgataacca agtgcccctc cactacgaat ntcagcn 517

<210> 30249  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30249

caaacattta acttgaacat ctaaaaaaat attagcattt aagcattgcc cggctataaa 60  
 atcccaattt aaggatgtca cctaacattg atgaacttga aataccatag tgtgctgtta 120  
 tagattttga acttgtaaag ggggaaagca tacctacacg agtatgcttt tccctgttct 180  
 ggcaagttaa gatgttacca aaacttaaat ttgtttccat ttgacacaat atttaaatta 240  
 tccttatttc acttaaaata aacctcttta ctggttgtag tattttataa acctcanaca 300  
 tgatgcattg ttattggagt atgattgac cagctgataa tttcccccat tgatggtaca 360  
 tattatat 368

<210> 30250  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30250

gagcttcact tttttaattt taaantataa aatttcacatc gagttataag agtttttaaat 60  
 aagatatgaa aataaatatg gccaatatg tggttttttt ggaaaattat tatacacatt 120  
 aattaagtcc gtgccttata ataaaaccgg ggtaatatta tccgaatggc tactttttatt 180  
 ctattctgtg acatgtaata ggttttgcat tcattacctc agggacgaag gaattaagat 240  
 gatttttttg cttcattacc tcagagacca ggattagggg tgaatattgt acggacatag 300  
 acgctcatga tctttntatc ttaaaagaaa tatctctgcg tgctttgaag ataacaatat 360  
 agactctatg aaaacatttg agctatactc gcn 393

<210> 30251  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30251

agaaggatga ccatgatant cgtacataat attcagctga cacatccctt tgaaatgaaa 60  
 agcaagaccc attattgtct ttatccctaa ccccgctgct ggattaacct ggagacacaa 120  
 aaatttatga atattccgac cgatttttga attaaggcca accatgggtga aaccaaatgg 180  
 ttaattggga gggaatattt gaccaattta aatatattat cttacccttg gagaacctat 240  
 cattttgagg aagaaaaaat ggttacttca tggattaact tgctottact ggtgcccaatt 300  
 aattatatta tctaacttaa ttattaagcc aaggatatat acttaatatata gaatgcattt 360  
 cccagtgggt taaatcattt cagggtggctg aagaaagcat gaccaaccag ctttaaccgg 420  
 catcttaatc cactttgcat ncagagcccc atttgaagat taatntgaat gggtagaaat 480  
 ataataatn 489

<210> 30252  
 <211> 249



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30252

acactanaga gaagcaatgg cgatattgta cacacacaca ttctctatct agaataaacc 60  
tanaatgtgc attttcactc tactaactta aaccctatgc aggggaataa aaagtaggtc 120  
tgatcttata tgccaacacc ggcatgttac tagaatagat cacatccttc ctcacattgg 180  
tcttcataa agaaagcggg aacggggaaa agtaaagagg gatatgtgac ggtgctttgt 240  
ttctgtaaa 249

<210> 30253  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 30253

ggcggatgag aaaacattgt ctatattcca tctccaactc cagtaggcct cccaatcatt 60  
ccttactttt ataggaggaa tggtagggac aatacctca atgccgtttt gtctaggaac 120  
acacatcatt ccctagtctc ttccttcttg attattatga tctctatact caattgaacc 180  
acctctcatg gagcgcacat tctcgggtgat cattaacctc tccaaatgta gcatcaaagg 240  
ttgcatgaaa gattgcgaaa gcccactcc ctcattagga gtaatacctg gcatctcaaa 300  
caagcatatc aaaccttaca agacaaatat aggaactggg tgaatacctc acccaactga 360  
gaggatcaca caataatggg ctgtctctaa cgaac 395

<210> 30254  
<211> 513  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30254

aggaatgact tttctanatg attctgagaa ncatcatnna cgcattctna gactccanac 60  
actgoggngn atatcaaaga ggaagtttct tatcacgtct tngtatatga caatttaca 120  
gcaaactata gagacagtgc atcagacaac gatataacag cgaatgataa atgcctccat 180  
catataaatt caaaacacga ggggcatcaa actgtcatca gtaggaaaat gatggatgat 240

atttatgcat taggggcaaa atgtagggga agatgtggat tactcactag gacatcgtaa 300  
 cttgaaagtt accatgggtg aggaaataac ataactgtca gattaataaaa gggccggtca 360  
 cacacaagga cctcataagc attcacaata gtatgactan attgaaagta attattcagc 420  
 gttaccttca actatttctg ctggtacata agcagcacat tatcattctc aagaagaatc 480  
 actccgatta caaattacaa aacaaatcaa tag 513

<210> 30255  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30255

agctctgctt atttggctct cgccagcgaa aggatcgaag tggatctgaa aagaggcaaa 60  
 tctaatactc ctgcttagac gaatgagaaa actgnggcaa ataaagaggg tgaggatgag 120  
 ggacaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaaccaaca 180  
 atgtcattac tcagtcaata acaaaccacc tccttaccga ccacccagtt atccacaag 240  
 gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgaaga agaccacctt 300  
 tagcacaac cataaaaaac accaaccaag aaatgaattn tgcagcaaaa agcctgtagg 360  
 attcacccca nattcgggtg tcatatgcta acttgctccc atatctactt gat 413

<210> 30256  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30256

actaagctga gctcactggg gtgcccataa agctccacga aatttggtcg gccatgctct 60  
 tccttgcgag ccctcttggg ttcttggtca aaggctcttg cggtagctgc attntcttct 120  
 cgtaaccggg cacactctnt ccgaatgtct gtagcgacca acttgaatgn ttctttggca 180  
 agtcttgcta ttctagttc tggtttgaga gcttagactt cttcatcctc ttctggagct 240  
 ntgaaattct cttcgttgat aatctttaac ttggagagcc aatctaacc tcgtgtaaga 300  
 actttcagcc attcatgata accaccgatg aagccattac gaatgccctt aagttcttta 360

tctttcctta acgagctttc ccacgcctta tggactcttt gtataacctt gaaactttgc 420  
gcgccgaaat ctctcaca 438

<210> 30257  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30257

gtgggtacct atnttgaatc tgcgatgctg tctctacata catanaacag tcccaccatc 60  
ccaattgtgc aaaaccatat tcatatatca ttgcggcatt tcaccgagca cttggtgggc 120  
gcacgtttgg acataaatcg caagagaatg ggggcaatgt ggcatgcctc attgcttcag 180  
aacacaacat aggcctaagg ctttctcatt caaatcctca actcaagaca tcaagcatac 240  
aaacaacca caactgcctc accaatgtaa gcatgttctc acaattagag caccagaaga 300  
tgaagaatat actccaatgg gaagcataaa actcaaggat ngaatactta cttgttggag 360  
tgagta 366

<210> 30258  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30258

aggaggatga tnncttagac tctganncaa attacctact ccaccgagac gctnnaagta 60  
gagctggctc atattcctgt ctnnnnctga gcgcacctcg ttggatgaga actagagcta 120  
tctaccaccg gctataatag ctaagctcac ccccatgaca aagaagctga aaatgacaaa 180  
aaaaaaaaag tacgttatac acaataactg agattgcgcc gaattacaag gcgtaaacc 240  
tatacttact aaatggcgca aatacaaggc ctagacgaag gaataaccta tgtaaatatt 300  
tacgaagata agcgggctca tactaagccc atgggctgga aatctaccct aaggctcatg 360  
agaaccctag ggcctttenc tggatctcta gccagctcta cttggagtct tctaaccgat 420  
gctcttgacg ggtaggatag catcattccc tccaccttag gaaggatgtg acctaaatcc 480  
cgagttcatg ag 492

<210> 30259  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30259

agacgttctg annctgagta gnatncctag ggcgnctact ctgaccnngc catactatcg 60  
 agnngagccg acaggcaggc aggcaacta ttttgncttg acnagacccc nnagcttagg 120  
 agagatcagc tctacaaaa taacaaccga ggagcggaaa gtataaaata ttaaaaaacta 180  
 atataaacga tgatgntaat gtaacaagtg acttcgaata aacatcggag ggaaataata 240  
 ttactgctag gctacatact tatattgtac agagaactac tacaagtaac cttacaaaac 300  
 gtgacaacta tgtagaaacg actaaaaag attatztatg caacaatgag tacaacttta 360  
 cagagataaa atatagttga aaatataatc gagcttaatc tctctaattgt gatagtaaga 420  
 caaatgctca tatgacatct ctatcattta taacgtgccca ctaattgagc ctgggttattg 480  
 ctcatatgtg cagtactttt tacagagcat gttcagccac gccn 524

<210> 30260  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30260

agagtaatgg ctnatgagac tntcggacac ataatctacg ctagcaagaa ccangcggga 60  
 nggagaatga agaggcgaca aaaatgancg atgtgcnccn cgagcccaga agaggtgatt 120  
 gagcctggag accaagacac ctatgaattc ctacaccgat atcaagatgt tgtccggcta 180  
 caccaacgac tatggcatat cagcaaggat gtacatttct tcctagtcac acgcccggcg 240  
 catggatgac ccactaagga cttctgccc aacatgatta tgattctccg cgaatcaact 300  
 tcacgcatgc agcctagccc tccaagcact gagaccagac gaagcccgaaggagacaacca 360  
 catatcctac tcgcgaggtc tgtgctacca attctttatt gctgcacgag aacgaccact 420  
 cctttccact caatgaacac aaatgaactt ttctctgct accgtctctg agtcagatct 480  
 ataactactg cacatatcca tttagn 506

<210> 30261  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30261

agctnttctc cctcattctc acattgcttt ntctcccttt ctctccacc attgaagcct 60  
 ccattanagc tccaaacttt gtcaccatt tctgctcaa atcgcaaaag gaagctattn 120  
 tcggagtcgt gaagcgcacc tctacgttgt gggaacttca aatttagggt tgggtagact 180  
 tcttctcaca taaattntcg tgggtattgg gttttgggag atatgatggg tagttgtact 240  
 aagtttatgc cttaaggtag ttatttgtga aggaatttgt tgaaagcatg ctaaaattat 300  
 catgtttgat gtgagctaaa tataccatt ctgttttaag gttntataat gatactttgt 360  
 gatgcttggt tgctgaaatc gttggtagaa aattgataga gatggagggt agagt 415

<210> 30262  
 <211> 210  
 <212> DNA  
 <213> Glycine max

<400> 30262

cttttgagct agaatgtgat gcctctggag tggaattgga gctgtttggt acaagctggc 60  
 accctattgt tattttattga aaacttatat tgcaccctaa ctacccctta tgataagagc 120  
 ttatgcctta taagagccct ccaacttggg acataccttg ttccaggaat tgcattctag 180  
 tgacatcatc acttagtcat tgatagcaag 210

<210> 30263  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 30263

tctgctgcc aacatacaacc tttgcccttg catgcaacta cctggagcaa gtgagcagcc 60  
 tgaggcttat gctgcgaata tatacaatag acgctgctca agccgcagca gcagaatcta 120  
 ccacagcaga acagttgtga cctctgcagc aacagatata gccctgcatg gaggaatcac 180

gctaacctca tatggtccag cccttagcaa caacgacaac agcctgctcc ttacttccaa 240  
aatgctgctg gccagacat accatacatt cctocaccaa tccaacaaca gcagcaaccc 300  
cagaaacaac caacag 316

<210> 30264  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30264

tatggtgttc aaggtggatg ntgaaaaagc ctatgactca ctctcatggg ttnttttggg 60  
ttatatgctg canagaatgg gtntttgcc aacatggaga cactggatgt ctgcctgtct 120  
caagtcagca agcattgcta ttcttatcaa tggcagtcct acaaaggaat ttgctcctac 180  
tanaggtttg aggcaaggatg atccttttagc ccccttactc tctaataatag ttggagaagg 240  
catcacatga ttgatgaagg aagcagtcaa aagaacttat atagaagcta tatggctgga 300  
aagaaaaacg aaccatttaa tatcttgtag tatgcggatg acagcaattt tgtgggtgag 360  
gctgagtggg agaattgta 379

<210> 30265  
<211> 173  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30265

gacctggact ggaaacgatt atcatgtact acagcatgat gatggaaagg atgacatcta 60  
ttcgcttatt atcactgagt gaggcacaga gaccacacgt ttatggctac agaagatgtc 120  
ctaataaatt atccacgtct gccatcatca agtactgttg taatgatcag aan 173

<210> 30266  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 30266

ttgaaaccac tttctcactg cggtgaactt cctaattaaa tgaaataatt tccctataat 60

taccatggac aaattccaat tgtaaagatc caattcttat ttacctaataa tgattaatga 120  
 ttcactaaga catcatcttc tcgctgcttt tgacaatgag tatgggtgaa cgaagccgta 180  
 cactaatcca atacacattt aaaatacagt atctacgaag tgatcttacg ttgtctccaa 240  
 cgagcaatgt caaccaaag ttcataacac atagt 275

<210> 30267  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30267

aggaatacta nnetcgattt tctcakanan tatcnnaanat aaggcatccn nggccgggnc 60  
 tangaggaat cngagagacat catntattnt tcnngaanc ccannnactg gaggggaccg 120  
 aacgcaggaa tcaaaccgac cgtgataaca tggaatccgc atattttatt gtacaatgaa 180  
 atatggaacc cacctctggg tttcatattg gtgacccatg cctcataaca tatgagccat 240  
 cagtttagta agttgaaaat attgggcaag atgtgttggt gtgttgagcc acgtgatgtg 300  
 aacaactgaa tgtataccat aatgattaat gcatggctat ggagtttaat tttatattgg 360  
 actaatattt tatgggacat actactgata aaatgtgac tagacatcat tgatcatgca 420  
 agatcctaac cttaacaca gtttggaag attaagtatt tgctctatac aagatctg 478

<210> 30268  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30268

agcttcatac tttctaatta atagcttcca aattttcatt ttgaagctat ctcatgagtt 60  
 atggctcttg catgtctccc atgttttgta ttcttcttt atactcttag taatatatag 120  
 acttgtagca taagatcatt acgaataggg tcaactaatat agttggtagt ctttttcta 180  
 attaagtga tatattactt ttatactatt ttctacaaga ttctttctaa aagctatcat 240  
 tttctattca tggctagaag acatggtttt atgatggtga tttggtgacg atnttataat 300  
 aatcaacatc attaaggagg caatgacatt tttgtaaata ccagtcatat ttcaacgact 360

gtgttccata aaacgatgta gaaattgca

389

<210> 30269  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 30269

tgtagcattg ggtatctttt gtgatcgaca gcaccaccaa gaacacaaat agtgtcgaca 60  
tgaaaaaac aggttgtgat ggtagaattt cttcttcttt gcaaacaaaa ccactatcat 120  
agatcctctt cttattgacc agggtgagta ttttttttag tacgttcctt cctgctcctc 180  
tgggttcatt tacctattta cattggatga gttttttatt cgggttttagt tatcactgca 240  
tgttcattgc 250

<210> 30270  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30270

cggggaaggg gtnnnnttnn nnnnnnacct tgctagtcag gcataccgga gtanctgagg 60  
gagcaacctg tattgtttgn gttatttgcc gcaagaaacc tgcccatttt cttatctttc 120  
ttcaggggccc tatggtttgg cactccggcg cttacaatat gggatgggtt ttccgacctt 180  
tggcttaccg attcgcaaaa ttggaggatt ggtagtggc tcgttttctt cacccttcgc 240  
aaggatattt tggccaccag tttctattct tctaattgta actgtgaata gtggtatgat 300  
catgtggagg cctcttattt ctaattccaa actttggatt tttttttaac ctctagtttc 360  
attgccccct aactggccgc tataccattt tctcgaccc ttttgtttaa gtgaagggtc 420  
ttatggccca ttttctgcgg ttcgatcccc t 451

<210> 30271  
<211> 239  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30271



gtacaaaaaa aatcctgcac atattttcac ccttcactct ataaatacat gaaatcgatt 60  
attctgacaa aatatatgcg tccgcgtggt cggtcgacaa actgtntgat ctgcagaact 120  
gcataccatt tgatatcatg tttgctcatc cttgcgtggt cctctacaaa acaaaaaaaa 180  
aaaaggggga agcgtgaaac ttcatactac attcttagtt tcatgtgtta cgcaccacg 239

<210> 30272  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30272

agcttgttca tagagatcta ggaagaacgc cgcggccgca gggactagtg ccgctcccga 60  
gttcgatagc catcgtttca ggagcgctga gcaccagcag catttcaaag ccatcaaggg 120  
atggtccttc caccgagaga gacgcgtcca gctcatggac gacgagtaca cagaatttca 180  
ggaggagata gctcgtcngc gttggatggt gctggtcatg cccatgggtca agtttgatcc 240  
cgatatagtt ctcgagtntt acgccaatgc ttggcctaca gaggagggcg tacgggacct 300  
ccggtcatgg gtaagggggc agtggattcc tttcgatgca gacgccctca gtgtgacatc 360  
ctgaaaattt ctacctgaaa ttnttgaaac gatgtatttt gaatgattat atatatataa 420  
gta 423

<210> 30273  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30273

agactctgca ggtagatttt agccttagtt tcactttagt ttgtagtcaa tncaattaag 60  
aaagagaaat gccaaagaga aacgtccgat tgattttttt tgctttattt tactaaaagg 120  
tattttttga ttatgatatt attattatac ctcttttttg atttccaacg tggttacagc 180  
acgaccgaac ggtcggattt cattataaca gaaattaacg gatattacag atcaaattgat 240  
ccgtgaaaat ttattttatt ttttgattag gcgagagatg acttaaataa atgactgaaa 300  
cacgtcaaaa gaggggtacg gaagtaaattg atacaagata ttaaagtaca cgaatcagat 360

ggagaccacc acgaatacat aaaatgaatt gaagagctca gtttgggtac ttaccggttg 420  
ataaccgatg aaaaacgaag aacgaac 447

<210> 30274  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30274

gccatgcaag cttgacttct aactcaaac atggcaaggt tcaacacact ggtcagacaa 60  
atcttcttca ccaaataacc ctatcacaaa gcataanacc annataaaac ctacccatca 120  
tatnctccc aaagcccat acccagaaa aatgtaggtg agaaagaagt ctacccaaac 180  
ctgagatttc gaggtccac acgtagagat gcgcttcacg attccgaaaa tgccttcctt 240  
tcggaattg gagcaaaaat ggtgaccaa ggttggagct ttaatggaga ggaagaagaa 300  
agaagaagca acgtgagggg gagggagaaa gcttctgaaa ttntctgttg agtgaggaga 360  
gagagaaaac agctnttttg tttaaagagg atnntctctt ttctattatt ntattntaag 420  
ctatgccaca tgtctccatt tgagtgga 448

<210> 30275  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<400> 30275

atgaagagtc caaagcaata cacatattta acaaatacaa aggtgaatgt tttttaacac 60  
atgcacgcaa acgaacataa aggccaaaac gaacacatgc atgcaaacat acataaaggc 120  
caaaacgaac cacatacaaa cgggtaaaaa aaaagaacaa aatagaaaca attgtaggca 180  
tcaaaactga tgcaatccta ccccgcaagg gcattggata gaaaactcca agtagattga 240  
gccagagatg caagagaagg ccctagggtt cttatgagcc ttaaggtaga tttcggggcc 300  
atgggctaag tacgagccca cttatctatg taaatattag attaagggtt cattattctt 360  
gggccttgta tttaaggctc cataatagag gtagaggacc ctagaaatat aagagttttc 420  
agcccttgta tttta 434

<210> 30276  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30276

atcttgagtt gatgaagtgt tgaaggggtga aacttctctgc ntttattgtt gaccacagag 60  
 tgggtacctgn agatatgtnc gcgggggtcat gagaccttgn ggacgtcang tgggggtgcta 120  
 tttgccccaaa ccaaacttga ccaatcccga cccacccgg gtgtcgcaac ctacccttcg 180  
 gcgggagggc gacgcgtgac ttgcgggatg cgtgttccac ggaaggaata cgcgcgaggat 240  
 cgccaccaac gtttatttga ggaaaacgtc ggaaaaaccg gaaaagacgc gatctacgaa 300  
 ctttttagtg aaagggttcgg gagttgtatt ta 332

<210> 30277  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30277

agtcattggc gagtengact ntctgcgaca catttttact caagctgata cccgcagaga 60  
 caacgtcgtg tttacgcca atcaatcgcn gcgacaaccc gnaacgcgcg ggatttcgta 120  
 atctccgcct ctcaagatct gtatatggac tttgagcacg cagatggcgg ataacgcgag 180  
 tgggtatccgt ataacttttg ctatctgtaa aacaaaacgc tgtagcacgc aaagacaacg 240  
 gcggctttgc gccttcgcaa tgcgggtcgaa agcccgtgac accagagata tacatatctt 300  
 tcgcgtcca agaactgaca tctgactttt ggtcgcgcta ccggccgaat acccaagggg 360  
 atccgataaa cttgtgctgt tgtagacgat agctggtaca cccaagacta cgtngggttg 420  
 cgccttatca tggcggcgac caccggtgc ctcggg 456

<210> 30278  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30278

cgccccgcgan nncnaaggat gttgaaagct anagaagctn cgcaattatt cattgncccg 60  
cgattctctg agccgactgg cgcgtggcca gattttttct taattaatnn ccaatattta 120  
tgaatgggtgta ataataataaa attttaagac catcctatta atatttatcc ggtggtnttt 180  
tatattaaaa tatttaagaa taaaatatta ttttgatat tccatattca ccggatcgga 240  
ataattgggt tttttatata aaaatccatc tcttaggctt attttaaatt ttcattaacc 300  
ggaattntta tttattgaaa tacctaaaat taatttaggg caacctaccg gcgcgtggat 360  
ttaatattat tatcaatcct attatatata aatggagtga ttccgaaggg acatgtataa 420  
aactgaaagg ctagtattgt gcaaaccagc gcagaaaaag gatcgtgaat atggtacaaa 480  
tattttgaga gaaacacaan 500

<210> 30279  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30279

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caaaaacaat tntcatattc aaacagaatg ggtaaattat aaaaatgctc agattagctt 120  
caactatgca gacaaaaaaaa aaaatagaag agtaagttcc tttaactggt aaaatatagg 180  
acttggtgca natttaata tcatgcaaaa aaagaagtgc agagtgcggg gaaaaaaaca 240  
agatgtgatt ctgctttcaa ttgagaaatt gtatttagtt cccattaata aaatactact 300  
ggttcaaaaa actaagatta gaacagtgtc tgcttcttag ttcttacagg aggaatctga 360  
actacattaa gttatagact agagtcattt cagatcatcc ctttttcaac tacctcatag 420  
tccttcagct tcttgtctag 440

<210> 30280  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30280

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aaaaaagctt accctaactt tgctttttaa tgtaaacttt gcattatttg atgaatcagt 120  
 ttatagagat agaaataata atgcgttgaa tatgtaattt ttactatcat cgaatcagat 180  
 cacanatagt gtgtatgata aacttggttaa atttatacat ctaccttaaa gttaagatat 240  
 tatttcaaga ataatacaat gatataagag ttaattgcga caaatgagat ataaacttct 300  
 taacacgtta gaataggact actactcaag tataccaata acattctgga tagttgataa 360  
 tataaacttt accgctatac c 381

<210> 30281  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30281

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 cgctgtcatg ggcttaactc gtggacaagt aaggaaattg gagtaaccag agaacaatcg 120  
 agaaactcan gcaaattgtg cctaccacat acaccagtac atcgaagtac ttactttaag 180  
 ttaattaacg taaacaaact ctgctgtttc tcaattctaa cccaacaacc ataccaata 240  
 aagagaacaa ctctgtggatt agctattttc attaacttta ttctatatat tattgcgaag 300  
 ctatctgata tatatcctgg acgaagagta ttccaagnct tttgagggtc tatataattt 360  
 ttttaaaat 369

<210> 30282  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30282

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 atgtacaata gaaggaacga ataacaactt attttaaact catctatggt gacctatggg 120  
 acatgggtgga aaatggaaat tacattccat ataacgatca gttaaacaaa attcctaaaa 180  
 gtcaatggac aaaggagcaa tctgattttc tcaactcaga gactccaaat gtgatgctat 240  
 atgctctatc agaagatgag tacaccaagg tacacaactn taaaagtgtc aaacaaatgt 300

gggacactct agctgtaacg tatgaaggaa cgtgacgggt aaagaagaac aaactaagtc 360  
tgctcactca taagtatgaa atctttctcta tggaa 395

<210> 30283  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30283

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gagatccttg gagtggacct gccgcatgct tctttgtacc tctntngcac tcgacactga 120  
ctattcactt ttacttatgt tcatcaatca ccctaacaca ttagctatga gaataattta 180  
tcaagaaacc ttttcatgtg gccatttcta atagatcgag gactcttgag tacatgtgaa 240  
ggctgctata cagaagtgga acaattcaat tatagtatca ttttactacc ttacactcta 300  
agtgcgacag atactctgtc catagtgact ttcattctcct cataagatgc aaagagtgat 360  
atgtaccgtt acaaaggcat ctgttatgct tggatagcta ctcgacagtg gtattggctc 420  
tataacctaa agctctgg 438

<210> 30284  
<211> 456  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30284

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acacagtcgn cagcanagag taagtatcag atgatagggtg caccctata gatnttaatg 120  
ccataagtat gtccttgccc ctccaacttc ttaataagag ctanattccc ttcagaacaa 180  
aggatgaaca aaaaatgaga gatgggatct cctagtctga gacctttccc ctggataata 240  
ggaccaacca agctttcatt gataataaca gagtagacag attggatgag aattaaaatc 300  
cacttaaccc aagtcgcact aaatctcatt ttggccatga cgttttttaa ataattccca 360  
tcgacttggt catagctttt gttgatatcc atcttcagcg caacttgtaa cctcccat 420  
gttacccttg accttacact gcatatgatg gagaat 456

<210> 30285  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30285

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gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120
aaataaaagg gttntctctt tttctattat tntatttaag caatgccaca tgtctccatt 180
tgagtggagc aagaagggcc cactttctct ttttgactgt gacccatatt cagtcacaaa 240
agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300
ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360
tatatatatc anaacgctca gaatanaacc ccgaacgtgg ttcagaggtt ggtttcgtta 420
a 421
```

<210> 30286  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30286

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catgcaagca agcagtgata tttcnnnncc ccgcnnnagg aggggggttg tactatcatt 120
ccctaaaaac atcaacatat caacgttact ctttatttac atcatgactg ctgacgaagt 180
ttttagctgc actctgagat attggtgacc tctactgtag agtgacgacc tgtcttatgc 240
tctccaggct attcaaaatt tgcttgtctt tcttgcgacg tacttggtta tttcttccat 300
caatgactca tgtctgaag tgtacatagg aatataacgt gttatgaact ctatttattt 360
gaaatttacc ttataaaccg actaaggtaa caccttgccg atgaaccctc cttaagagtt 420
cag 423
```

<210> 30287  
 <211> 337  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30287

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 ttttnnnnnn caaagggggg gtattacatc accaaacacc agcangacac aacatgggca 120  
 atccccaatg acattgtggt ggcaacacta caagtaatat actttaatga cttgagattc 180  
 ttactgtaga gatctgattc aatacaatgt agacctttcg caacagacca tacttgacta 240  
 ccatatcaaa aacatcaatt tctcaccaat taccaacttt aactggatta cgacttacat 300  
 gaagtacccc acatgcctgt cttttacaac agtcctc 337

<210> 30288

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30288

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 atattatggg aactggacac aaantgccaa gagtctttca aaaccaaag gtattatcct 180  
 ctaaaaagca catcgtttta tcctcttaac aaattccttg gccaaattac ttgtgattca 240  
 ataaggaatt atttgagtgc tcaaattgtg caatctatct ctttcaagag agatttcttc 300  
 ttttcttctt cttcattctg aaaaaaggga ttaagagacc gacgggtctct tgttgtagaa 360  
 gaattctaaa cacaaggaa gggttgctct tgtgtgtcta gaacttgta 409

<210> 30289

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30289

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 cttacaggty agagaggagc aaataatatn tctaacncnc cccgaaacaa cggcgcccct 120  
 ggcagatgat cgcacacgcy aggccaggaa ccccgagatg atccgctaac actcttgtyc 180



gtgagagcag aaatgacaac cagtgggtgga caagaangtg agattccttt gtggagccgg 240  
cgaactgcat gatgaccgtg agattatttg ggagagagtg tgttttgtaa tcaactgctg 300  
cctagcaggt ccggaattct ttttgggtgat ttggagactg aaatcacata tttaatcata 360  
tgtgtgaaca aagttattcg tcattatgtg aatgatgtgg actacngac tatatatata 420  
tgtatatata tctcgtatgt gtgtatgggt ggattccctc aagcataggt gcactgtcct 480  
ggggatgtat atcggtaaaa cgattcgttc at 512

<210> 30290  
<211> 349  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30290

tccttcctta acctttctag ctgtgcattg gtgtattttg atctcctttt ggtcctctaa 60  
ttgtggaatg tgttcaatat gtgggcaatt tttgggttgt ttccttgctt gattgggtta 120  
gaaattgggg gggtttgtat ggagatgggc cctangccct ataatgcatt ttttgaagca 180  
atgagacatg ccacatttgt ccccgttctc ttgctattga tgcctaaaca cgcgcccacc 240  
aagtgttcng tgaaatgccc ccatggcatt agcgcggtgt ttttgatgga aacaacccat 300  
ggagcatttt ggtttgaca tatnttccat tttttgggac atgcattca 349

<210> 30291  
<211> 366  
<212> DNA  
<213> Glycine max  
<400> 30291

acctttgtca atgatattct tcatgcctct taagtgcaga agtccaaatc tttgatgcca 60  
tattttgact tcatctttct ttgcaggtgg gacatgtgga ggagtaactg gttctttgag 120  
gtgtccataa gtagcagttg tcccttgatc tgctgccctt cataaaaact cattcttctc 180  
attggcacca agcattctga ctttgtgaag ttacattga atccttcac acccaactga 240  
ctgatgctga tcatagttgc agtcagtccc ttcaccagca gtactttgtt cagactagga 300  
agccatcatg gactagcttt cccattccag agatctgtcc tttagagcca tctocaaatg 360

tcacat

366

<210> 30292  
<211> 501  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30292

aaggagttca tcttcttgca tnacgacann nctattncta tcngcgca catncacang 60  
gnngacctgc atgctgcaa gctttcggtc ttctntnnnc actgctgca gaaaggggt 120  
tatttatcca agtgagatta caagccccta acaactgtgc ttgacaacac gcctaagtcc 180  
gacacagatc aggtgcttga cgatgtgtat ctgatagaga acggcacagg ttttttcaca 240  
cggatgttga acttaaactt gtttacacaa acatcctatt tatgactata gaaagtgaac 300  
aacctgcctt gattagctgc ctgctctccg accaccgata tgaagtagat tgcgcttact 360  
gtgcttctcg tacctgcaca ccgccacact tctagttaag acaactctcg tgcggaac 420  
tngatgcttg taaaagtcta ccatatcagc ttaaaaagga gaactacttt gcattgcaga 480  
tgggtctaacc atctatcacc c 501

<210> 30293  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30293

agcttctatt actntattga cacacaaaat acctaatttg aatgaagcat ttgatatt 60  
tcttangatg tagtcttaag atgctgaggat gaaatctaaa attagggtta taaaatttgg 120  
tcaactttttg aaataatatt gattgaagat atggatgaaa ttgaatattt aatattaaaa 180  
aatgtgagta atttaaaaaa cttatataat tcttttataa ttataataaa agtggctaca 240  
taagtaaatt attcttatga tgatcaaag aatcctataa gtatatgtaa aacctacaaa 300  
aattattctt tccacaattt acccatgcat tgcgcgga aaattgacca tagttttttt 360  
ttttaactta aaaaattgac catagctgan atgtaactta gtttcgctta ta 412

<210> 30294

<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30294

ggagatcagt ttatcnanct tttcggcacg cggcgggggg gagctttttt cacacgcagg 60  
ggttgtagat accccccctg cacactcctg tgcggctata gcgtggacaa ccaggtttaa 120  
taagttatct acaaggcgca tcttgaaggg caatatgatg aagaaagggg taactgtaga 180  
attataaaaa ttatatatta tctaaggaaa aaagattgtg aaagaccagg gggcctggta 240  
atcaagcaaa aacgacgac 259

<210> 30295  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30295

agatcgtgac gttcttgcnn ncntatnnat gnnccacnt ctgagcgccg gggagggctt 60  
tttcattttt tncnacncag ctgggggtgc gcagctggag aaaagaacca acaagaaaca 120  
gcccattgatg cgggggtggtc tttactgcag agtggggaac aagaaaaacg tttgactgcc 180  
tttgggaagca ataactcacc ccattccatg actttcttta agtggagttg ccgcgcgag 240  
gtgggtgaag cctcgagagc agaagcacca agaggaagag agaacaccgc acgacctcta 300  
gaattggata aaacaatcta cagggtgcta aagacgctac atgggcttca aacatctgct 360  
tccgattaaa tgggtgtcatt actctcgc 388

<210> 30296  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30296

agcatatttt tcattaaaat agataaaata ctatgttcag atatacatgt ctacttgtga 60  
agagatagct agctatcaca tttagctatg gtgatcagct tcataaagag tccttctaaa 120  
cccaatcaaa gcaacaacaa agtaacaaat ntacagaata gatcaagtga aaacacttga 180

agcttaaaat cagtaatcaa tatgattgga tagaactata gtcttatcta aatcacangg 240  
 caaaccacaaa cttgcaatan aggcaaagta actaaatagt gactactata gataacacta 300  
 atcaattttcc aaagtgcata caaaatatat ccaaattgtgt gaataataat agtgatgata 360  
 atgaacaata tg 372

<210> 30297  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30297

atccaagctc atcttggagg agaagctccc tcaaattggc ttattcccta gnggaagaca 60  
 cctgcggtca cctattctcc tttgtcttcc gctgcatctc catggtggaa aatcaccatt 120  
 aaaggaccta attgaagctc aaagatccag tctccataga agccacacaa gcaagcttcc 180  
 atcanaatta gacctacgta gttctttcat aagaacagaa cggtgggttaa gttgttttga 240  
 tatttttccg caagatcgat tagaaccgaa caaaagtcgt ttaaggtgtt gagcctttaa 300  
 acgatctttt tgattttgaa aggaggggag cactgttaaa gcgctggacc tttaacgata 360  
 tcttggtttt gagaggagag aaatgttaag gcgttggatc tttaacgatc tcatggagtc 420  
 gacaaaagcg gagctttggc tctacatat c 451

<210> 30298  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30298

aggcatacga tcangctntc gnananacac agaathnaat ccncggnncc cgagactccg 60  
 nnggagngga cctgcacgca tgcttgttta tttcttnca accaancggn gcgggataca 120  
 gtgtggagtg tatagacttc acagcataaa naataatcag tctatgttct ctcatacatt 180  
 accgcatatg gagatgagct atatctcgtt cacataagac tggacaatac cgctgtccat 240  
 agatatgtat tatgattaca aactcgctta ctgaaacctc tctcgcgaaa tgagtctcta 300  
 cattgattaa ccatctacat aatggaaata gaatggagag atgtctagaa atcagtgcac 360

catgccgcct atacactcgg agatcttatt cgatggctta ccctactata cctcgcacag 420  
acagagtatg gtccttatct ctgcgggacc acttcatcaa aatgtcaagg agtccagat 480  
actcatcata cattcactca cgc 503

<210> 30299  
<211> 398  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30299

aggtttctgc ttgannccan anataacccc gagccnncga aggtagagag ctctagtgtt 60  
tnccaaaacn gagagacgag ngtgaaacaa acacaccccc caaccaggcn gcaccacaaa 120  
ggaagagaga aacgccagcg gagaccgaac gcgagatgga aggatcagag gacgttcacc 180  
aagcgggctg gatttgaatc attcctgagg aagaagatga agctcttacg aactgtgtgg 240  
ggtgatacta catatcagta tgacaaatca gatcggcata ggatacgcca catggaggaa 300  
agctcatcca ctggaagaaa ttcgtcaaag aagcaagctg gatgtagctg tcccacaatg 360  
aagctggagg gcgtggcttg gggtaaaaat caagcaag 398

<210> 30300  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30300

ctatcttact ttttcttgta tcgtgactct tcgttgccat catagagagc ggngcagaga 60  
gaagaaacac tctctggcct ctcatcttca agcttcgatg gagatgagcg ttgcaaggct 120  
aaagaaggac gagatccana ggctgaagaa agagatcaat tagctccgac gtccggcgac 180  
agagctgcat gactcagaga caagcgcgac gctgaagaac ctctcgaag agggagaaaag 240  
aatggtgaca ttcctagaga cgagcgcgcc agcaccacca tcaccatcgc tgatgttatt 300  
caaaccetaa cccttctcac cctcaccctc aaccggtnt gctcgtcttt tctgtggga 360  
ccgccttcaa cgacgtcgtc gaggagctca agaanttcac caccgcgcatc gctca 415

<210> 30301  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30301

ctaataaatc tatgtatgat ntanaacaag cctcacgtca gagttatctt tagtttcatt 60  
 ggaatatttc cttcttttgg ttttgaggaa acccacatgg atcaatgcat attaccacaa 120  
 ggtcagtgagg agtaaaatat gttttcttgt tttatatgta gatgatattt tacttgcaac 180  
 caatgatcaa tgtttgctac atgaggtgaa acaatttctc ttttagaatt ttgacatgaa 240  
 agaatttggg tgatgcatct tatgtcatca gcatttaaga ttcatagaga tagacctcga 300  
 aggatttttag gtctatcata ggaaacctat attaccaaatt tttatagtga ttttgatga 360  
 taattgtcac caagtgttgc tcccatcgag aagggtgata gatttaatt 408

<210> 30302  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30302

ttgcacctga tggctctgtg ttttcaccaa cttaaatcta ggttgacaag ttacatcctt 60  
 gttgattcga tgggtgcgac tcagttcaga ttgtcacaat tggcttacga gatttgaaac 120  
 acaggttaga atatctcaaa ttcataanaa tgggtttatg ggttttcgag attatgacta 180  
 gaacatgaaa atagattaga aagaaaaggt tccatttttc ctctttctaa gttgaaatnt 240  
 agtgctgcta cctttaccct tttcccaatt acccttgaat taccatttc aaccggattt 300  
 caaactcggt ctgtttattt tctctagtta cataaccatt gctgacaatt gtgtagtgaa 360  
 gtattaattt tg 372

<210> 30303  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30303

gtgagttttt tctttttgat tgcacacnat natgtttcgc gcaacanncc nnnaccggag 60  
gatgcaacaa ggtgctacat tctnaacncc cggaccnggg ggnncggaaa gaggggaaac 120  
accccgggag aaaacgnncc cccccacccn ngaaaggacg acaggggagc acgccaggca 180  
gctgccggac cgcgagaagg gggcacnacc acgccacccc cccgaaggga agcggacagc 240  
gaacgagaac ccaccaaacg agaccaagcg gccgagacgc ancaaaaaca accaaaacac 300  
aaaaaccgca aacgcanagg agactgggca gccangcacg acaggcacgc aagcaagcg 360  
cgaagagggg cacagggccg ccccgaccaa cccaagcga accaccaag accggaagaa 420  
agcccaagaa cccaccgcg aacgc 445

<210> 30304  
<211> 464  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30304

aggatttctt gcctangatn ctnannantc aagacccgcg agcgntaaga ggccggatgc 60  
tgcaagcang attgtgatat caaaaganac aaccggcgcc gcggcttgat cttataagag 120  
gcaagcatct atccttcaaa cctgtgctca ccataatcga taacctacaa ctcttgogac 180  
aaacttgatg aatgcttgga tcatccacct ttctaaaaaa tgcattgctcc aaccactgtc 240  
atttcccaag aaaagtgtta tggtcaaaaa cccgtgcata taatcgcttc atcctctact 300  
gcctatgcga aagcttaaaa gaactaacca cctgaatcct ttgtggctct ctcacccttg 360  
ccgaagaaga gcgacaaccg cctgatgctt tgtgactctc tcctacaaag atcgaagact 420  
actgctgaga tcttagaaca tcctacccta aacaagacca aggg 464

<210> 30305  
<211> 566  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30305

ngggatctta cccggaattc gacgnacnna tncatanoga ncnaaanaat tttctncncc 60  
gngngagtag ccctcgaggt ggagncngcg ctggatagca tngcatgcaa ttggatgant 120

tttnnnnaag ganagaacct cccggtgtg tattgtgtaa ccacacaagt ggataccctg 180  
 nnagatattg tccccggggt gtcaaggaaa acccttgngg acgatcaagt tgtggcgcta 240  
 tttgcccnat acccagcctg accaatccca accaaccctg gcataatcag tcatttgaga 300  
 acctgtaatg tacctaagca ggcgatgctc tggcagtcaa cagatggaaa ggaaaacaaa 360  
 aaccacaaaa ctatgggagg ctgttggtg ggctggccca actgtgaatt ctggtgaatt 420  
 atagtggatg gtagccctct ggtaatcnat tacctaaggg ctgggtaatc gattacaaag 480  
 cctaaaaatg aaaacaggag gctatgattg tctctggaat ccaataccac ggggtgtatct 540  
 attaccaggc ttggaaacaa gtcacn 566

<210> 30306  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30306

cggaattttt agttcttagt atcttgcacc nctnatnaca cagcagcctc tcgaagcgag 60  
 agcnnaggag agaaccacaca taatgggtcca atcccnccca naccaccggg agaaattgaa 120  
 attccaattt ttaaaccctg tatccgatta cacaattgtg gtaatcgatt accagcagtt 180  
 agtaaacggt ttattccaaa tttaaaaagc tgaattcgat tacacaatgg ctgtaatcga 240  
 ttaccagacg ggatttcaga aaaatagttg caagagtcgc aactttataa atgctttaca 300  
 tctgaccacc atgggctatt tatatgtgac ttaacctgaa attgctcaga gattttcagc 360  
 caacagagtg ttatcctctc aaaagcaatt tcatttatcc tcttaagata tcttagcaat 420  
 tcaatgcatt cttaaggatt aattgagtgc tcattctgaa atccatctcc tcaagaagat 480  
 ttgttctttg 490

<210> 30307  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30307

agcncatagc tctctcttca cggaatgccca ttatggagtg atcaatggat attcttcttt 60



caagtgcattg atacaaagat atggagttcc aagtgggaaa tataagttgg ttcccatagg 120  
aactagagag gttgctaacc aaataggacc caacacaact attgtacctt aatctacatt 180  
ctatacattg ttgtaggatg acctatcaac agataaacia ctatgggtatc ttgataaacgg 240  
ttgtctcaagg catatgatag gagacaagtc aaagttttatg tctctaaacg ctaaagaatg 300  
aggatgtgta atctatgggtg ataacaacia acggagaatt cttgggtgtg gtaatatgtg 360  
taattcccta actatctcca tagagaatgt cttatacgtg gaaaggctga aaca 414

<210> 30308  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30308

actttattat gctgctcctn ngctnntaat ccactgctta atatccaaaa taaacttgca 60  
acctttgact tagacttgag aaagaaatcc aacacattct ggtgaaatca tctacaaaga 120  
taatgtaata tttactctct ctaagtgaag tggctccttg aggtccgcca aatttggtgtg 180  
aatgaactgc agcttctcta ttgctctcca agttgattgt ttgaagagta atcttggttg 240  
cttgccatat taacatgttt cacagtttgg taattcagaa tctaaatgag gtaatccatg 300  
aaccaactcc tttcattgca tgtccaacat aactgcatga tgataatggc ctaatctttt 360  
gcgccagact tctataatat ttatagtaac tgg 393

<210> 30309  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30309

acccatggcg gagcgaggca gagcgtcgat tccttcttgn cagnnagna agaaaagatg 60  
gagtagcaaaa ctaaccctag cgcagagaag agatattctt ctgcgcgta atatgtgcag 120  
tggcgagctg gccgaagata cctgacctgc gtgcgaaaat caacccctt ggaaatccca 180  
acactagtgt ggtacctgtg ctgcacgatt ggggtgtcaa ggggaagtac ctgcgagcg 240  
cagacttcga cgcattcttc gtgaccttcg caaacg 276

<210> 30310  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30310

agcttangtg atcataattg cctcaatcat ttccaaagtg catgtgaatt anggagcatc 60  
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg nggaaaaaca caccacatga 120  
 ttatgatgat ggatggctca aattctcaca atggtaaact catcactttc aaattgagct 180  
 ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240  
 acttttatta tcaaaacaat taccatttg ttgaacatat cctataattc atagaaaaac 300  
 atgcaaagtc gtacatgcac acaaaattga ccataatat taaactagaa atccgacgaa 360  
 actaacaaca ttaacaaatt aacacaacta acaaattaac aaaccaacaa tactagcaaa 420  
 ccaaagaca 429

<210> 30311  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30311

ttgagacaaa tgtggaatgn tgagcactnc aagatagatt ccggctatct ccattggggca 60  
 agagggtaat gaaagaactt ccaatgacta ctcataacat ataatgatct gcctcgctgc 120  
 tacgatatca ctactctaaa atgagaaatt tcaattttta gtgaaagttg tattaatttg 180  
 attatgaaaa tggtgagaat atttttgcga tataattca tcaagtaatg catagattca 240  
 cacacgcaca cgcacacacg cacgcacaca cacacacaca gacacacaca cacacgcaca 300  
 cagacataca tatattaaac cactatacat cattcacatg acaagatata attcagtgtt 360  
 cacatgtatc taaacttgta attgcatgcc cactcaacat cagtgaccaa ctaggaagaa 420  
 ttgaaacaga catactctct aaagaactn 449

<210> 30312  
 <211> 420  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30312

agcttactat attgcaattg gatgcttccc gccaccagtg atcaagcctc tttgatagcc 60  
ttaaacaatct ttcttttcac aatgtgcaca ctataatggt ctctgaaatg ttcattgtggc 120  
tccacatgat ntangtttgg atgaaaccta agcttatcag ccaccctttt ttccatccat 180  
ttcattgttag cttgttttatt nttgaagacc cttccatata tgtgctcctc caaaaaagtg 240  
ttgatttgaa agcttcttgt aacttcgaac catgaacaat aaatttccca tgaacatcca 300  
acttgtttac aacgcgctct agcttgaatg ttgtcaactt taccatttcc agatctcttg 360  
catggaaaat agttaagtct ctaacaactt caataaacat tntgatgcta tcaaactcca 420

<210> 30313

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30313

gccgatttag ttnttgtcgg cgagaggatc gaagtttggt ttaattgttg anaatnngat 60  
natectactg tgatgattgg gattcctang gcanatggag agagtaagaa tgagggagga 120  
acctatgcta tgactgccat tectacatgg ccaaatttcc caccagctca acaatgtcaa 180  
cactcagtca atatcagctc ttctcattac ccaccatcct atcaaccaag aacacccaat 240  
catccacaaa ggccaccctt aaaacaccaa ccagagaaaag aattttccag caaagaagcc 300  
tgtaagattc accccaattn tgggtgtcgt tgctaactta ctcccatatc tactcaataa 360  
tgcaatggta gccataatcc cagccaaggt tcttcaacct ccatttttctg aggatacaac 420  
tcgaatgcaa catgaactca tcatggagga gtctc 455

<210> 30314

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30314

gggatgcctg tntctcnnnn atagaagtcc ccgacgngag gacggaggag cacttgttct 60

tgaaaccaag gccactgttc ggaatccaca ctgacttcaa agaggaggcc ctctcataca 120  
 tgattcaacc tccccaaaca atattgctag gtcgaacccc gttggactca actcccacga 180  
 tcctacatat aagaggacac aatggagtct agtgggcatg atcacacaac gtgctgaagc 240  
 acgaagatgg actgcaccat tggaccttac cctcatgaac ttaaccaggc catctaattgc 300  
 atagcccata tgactgaaga gaactg 326

<210> 30315  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30315

gacctaagta aactaactcg cttagcacga catgctggct tancgagtcc atacaaactc 60  
 agaaattaaa aactagaatt ttaaactcgc gtttaagccga agtacagtgg cttagcaagt 120  
 tcatacataa aagcataaat tcaaacataa atgatgaaca cgcttatcgg gacagggctg 180  
 gcttancaag ttcattcagat aaccagaaa ttcattccaaa attgatgaat tagcttagcg 240  
 agtacatcga aatttccaaa aaattggggc ttcgaagccc ctactttcca gtcactttca 300  
 ggctaagaa ctctaataa aacacatcaa atgaacctac attacctaag aaactagatc 360  
 cctaacaaca tataatcaaa caactag 387

<210> 30316  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30316

cagggatgcg cctaattgat gaacatattg atattaatgt caagcatttc gttcttcgag 60  
 atgacgatcc tgagaacttg aataaattac agcccagaaa tcaaccaaatt tagtgcgatc 120  
 catcttggtc tttaattaat catccactgt ggcaatatga tccacaatta gtggggtaaa 180  
 gtttatacac aagtcagatc aaaataagag aattntaagt ttatgcaaaa cattggatat 240  
 tattcctcan aatatattan aatgaatgac atatatgtgg cattctcggt gtgaagaata 300  
 acatttcctc cactgacacc tcatgtatag gttgcagcca gcatgcatgc aatgagatat 360

atatggatga aagcaacaag tacgtgtctg agtngaactt gaacta 406

<210> 30317  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30317

nggggtgtatt ctttnatctt gcannncgcg aancaacaaa cncaggcttg gaagagaagc 60  
 gttgaggcca ttgattgac ttcattgttc gcancggccg ctgagtgtc ttgcgtctgg 120  
 acgagaatga cccactgatt cttcctttgg tggagacatt gttcaggcgc aaatgattca 180  
 gtggatggct cgactcagag gaagaagatt cggtagtgtg cgtttcatta gggagctact 240  
 ttgaactttt ctaaagacaa atggaagaaa tcgcccttgg gtattatatt ggggacgtcc 300  
 atcttgtggg tcgtaaataa taagtactaa ctgaaataag aagaggagag ggacttgggtg 360  
 ctcgaaagaa ttggaaagtg gggagatagt acatgtgtct ctgtggaggt cttccatctt 420  
 ctgggggtgtt attacccctt ggggtggaatc acctggaagc ctgtt 465

<210> 30318  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30318

ttttttgttt attggcntac tcaaaacagg accacgtttc atatttcttc cctagcatng 60  
 acataactgt cagttactgt cgaggcttct ggagcatcta taacttggtc actatattct 120  
 gtgcgacatt tgcgtggata agctgcatca aatctctctt gtctctctgg attccttcag 180  
 cacgaaagta gtttatggtt gtcaattgct tggcaactgt acttcgtatc tctactttga 240  
 caatcttctt ccgtatcgca tgcagagaag ccccttctc aagctcttgt aacaatactt 300  
 ttcttgcttc ctcaaatacc atct 324

<210> 30319  
 <211> 618  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30319

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cgaagcgatg acnactangn ctctacgaan nccccgcgaca cnatatgaat aatcaatgct 60
tgnnaggatt atgggagtag gccgatcaca tgtgtgtact attgtgtgtt ggtcgcgggcg 120
aatggtgcac acgcagagtt tatccgacat attttatant gcggcacata gaacaccaca 180
natcgcccggt gtggggcgcga cactaccaag ctggagcgct agcgtaacctt cccatcgtag 240
gccccaatat ctctcngtct tcgtcatcag acacgcagag ggccggtcat gcanatctcg 300
tcgctcagag cgtatcccgcc agacaatcgc gaaggtagat ctcaaactat tgcaagacag 360
ccacaacacg tatcacgagc gcaagaaaaa catgggcgaa agagcagaag aactcatgcc 420
ctaaaactac caacgcaaaa gtcacgagct ggttcccacg ttaaaggacc gccagtgagc 480
atttcctttc gatccaagtt cggttaaccag ctggatcgac tcagtaaattg ttactggaag 540
tctctactac aaaagcctac attttgaccg ttgagatatg ctagcacata tccagaagtc 600
attctgcact actctttt 618
```

<210> 30320  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30320

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ctagccggtt ataaggcaca tttattctga aattntaatg gaatgtttgt tgatgttatg 60
tgctntaagg tttttatttt cgtttattta taaaataaaa tctgtccatt tgtatgaata 120
gacaattatg catagttgta acaagaaaaa aaaaaaaaaa aagagacact tgtgcaaagt 180
caattcaacc attgtatctt tttttctcat ctagaagttt gcatagattt ataagaaaac 240
taaaaagaat tagtgcaaac tccaaaattg atccttcagt ttttgtcatt aaattagttt 300
ctcaacaata gataagaaaa aaaaaaacact aaaattcatt ttcttgtgtt acaaaaatgt 360
tcagaggttt aagatgtgaa gtgtgaacac tgtaatctt 399
```

<210> 30321  
<211> 139  
<212> DNA  
<213> Glycine max

<400> 30321

tgcgcggactt aagtcaatgg tcaaacccttc accattctac gcttattcca ccaccttggc 60  
cgagacctcc cctaggccac atgtccttac catgtgtgct aagacatgtg tgctttcctt 120  
ttgggcttct actgagtct 139

<210> 30322

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30322

agcttgttgt tcttttgtgt tgctgggtggc aaatggggtt attgtattac atatgatgtg 60  
ggggtgttag ctcaacaact gtgtgtcaaa ctcatatctt tatcaatatc agatatttgt 120  
gtgcaaaaaa aataaaataa tgaatattaa aaatcacccg aatattaaaa gttatttcaa 180  
aatttaaatg ttaatatata attaatnttt taaatgaaaa cttagaaagt attaaaataa 240  
tacaattaaa aaatataaat aattaaaatg aaaatnttta aactcaatat attaaattga 300  
aactaaagta aaatttaagt taccaagtgt cattaagtct tttaaataat cacttaaaaa 360  
tatcaattga tgagatttca aataaaaaata ttacatatt tgcttatgac anaaataaa 419

<210> 30323

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30323

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ttgttctccc cttaatctaa taggccttgt ctgattgtc atgttcaatc agaaaacacc 120  
aggtagaatg gagtctggaa ctctccacac ctataaacag ggctagttaa ttttgggttt 180  
ttgttttatt tacgaaagat aatggatctg atggagcaag cagatataat ggcacaacaa 240  
gttttcccga aggaacttat aggttttagtg tcttaatata acaagatgtt aatcggattg 300  
cctgttatat tagaagttga ttgaattcca ccaagtaata gcattcatag gtaatgttgc 360  
acagacaata aattaaaatg tatattntct gcctttttct tttcttggaa gtcgatgcaa 420

tgacatgctc ttcactgtgg tgagtaaaag ttcagatata tctacatagt atactaata 479

<210> 30324  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30324

agagcgggta gttcttgaga tcnogcaata ntgctctgta cccgcgatcc tntanaatcg 60  
 aacctgcagg cttccaacct ggactattcc catcccaccc cggccttatt cggccgtgga 120  
 gaccttgat gtaacttaac cagccaacct cttgccgtcc accaattaaa tggaaaccag 180  
 aacaccaaac cagggagcct ggtgtggcct gccacactgc aaattttggt tattatgtga 240  
 atggtggcct ctggtaatca ataaccaagg gtgggtattc gatacaaggc ttaaaatgaa 300  
 gacagaggct aagatggctc tggaatcggt accacgggtg taatcggtac caggcttgaa 360  
 acgatgtcan gaagctatga agcctctggt atcgatacca agtgtgaatc gataccagct 420  
 tataaagaac tggagtgatg aacctctgaa tcatacagcc tggatcata cacaagaag 479

<210> 30325  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30325

agagatgact tgaacgcca aaaaccgctg tgagactttt gaggcgtact tactcatggt 60  
 cttatgggat tcccctggaa tcagcggaga tataagatat atgtgagagg aggcgccatt 120  
 cctttaggaa taagccctgg gagaaggac cttcccacca cagatgaagc cttggatta 180  
 agaaagcttg gagaaagatg cttccattg gaggaatg aaagaaggga gagaaanaag 240  
 agaggggcgg agcctcgana cttgatggaa taaaagagg tatagaaatg gaacttttga 300  
 agtatgtctc acaagactct cattcatcaa agttacaaca agtggtacac atgcttctat 360  
 ttatagacta ggtagcttcc ttgagaagct ntctagagaa aacttncttg agaagcttct 420  
 ttgagaatac ttccttgaga agctagagct tagctacaca cagcctctc ataactaagc 480  
 tcacctcg 488



<210> 30326  
 <211> 219  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30326

ccaaaaccag cttgaccaat cccgaccac cccgggctta gtcagtcagt gagaaccctg 60  
 tgatgtacct aaacaaggcg agctcctggc agtcaaccga taaaagaaca aagaccacat 120  
 agcaaggggg cttgtgtggt ggctggcaag ctgtgaatct tgtgtgatat atgggatatg 180  
 gcctctggta atcgattacc anaggtgggt aatctatta 219

<210> 30327  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30327

agaagcattg ctgagactgc accaaaaacn cagcttatag tgcggtcttg gagacaaagg 60  
 tcagnggtcg ccaatattgn agatgaggtc ccaagtcctt cggattgggc ccgaccatgc 120  
 cctctgatnt ccactgggaa attggcgaag ggatgaacct ccccggtttt accccacaag 180  
 cattatgtaa cccttaccgg ttttaaaaac cctataattt ggccctagct ttagaagttt 240  
 catttagtaa aggcttgtgt ctttggtttt gaattatata ccaagatctt cttcatctga 300  
 tcttgtctct accattctca ttctttgcat gttacttctt ttctgaccgg cagattcatg 360  
 acgagtcctc gagagactaa tacctggacc cgctatcaac tcgacaagaa cgatcaacgg 420  
 agatgaagag agagatgtgg acttcttcga ctagaagggt gccg 464

<210> 30328  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30328

cgggcccaaggaggatattg accttaattct tgcnnattca tagtaccngc actcaagagg 60

accgaggatg agcaaatttt tcttaangac ccaacccaaa gatttctcta taccttgta 120  
aatctaggaa acctatgggt cagggcaatt tactctaatt tggggaagga accattagaa 180  
tgaaaaggaa aaggtacat tccccccac aaataagtgt ttgttaaaaa agaagcaaaa 240  
aaataattgt gtggtaccaa aggtgaaagc acttacgaaa tgaataggag aagctattgt 300  
acaaaacaga aagacattgg attatctaga cttggctctc ttaaactaac gttgaatcta 360  
aaaaccagga tttttgacca cacctctac acctgaaaat cttctatcta ttatatTTTT 420  
acttatgact a 431

<210> 30329  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30329

agcttttata ggatttattg aanatctcga ctntatgtgg gcatggatgt ccgtagacg 60  
tattatatta caattagtat agaagtcttg ttattaacct catctattat tttattagaa 120  
tcattctttt gtgtattatc ttattagaat ctctaacttt tttaaaaaaa caaagacatt 180  
ctaagatggg tctttgaaaa accatcttag aaagtataca ttctaaaata attnttgaaa 240  
aaattatctt agaattctta atatgtttta tttaaacaaa aacgttctag ccattcttaga 300  
aaatatacct ttttaggaagg gtctttgaaa aattgtctta c 341

<210> 30330  
<211> 489  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30330

gagtagttaa gtntctgaca caanatactc acagcggagg aaagaaggcg cacggataga 60  
ctgcattgta ctcttggtag agactgatta atggggcgtg gagagaacac ataagacacc 120  
ttcgtatgtg cctacctata aatctctcag cgtagcccaa gagataaaga aatagaaaaa 180  
ccatgtttga aatatgtctc ctaacgtctc ttactgtcc ttacatgtac ctactatcca 240  
tgaggatacc ggatgccgat aaatagtctg actaattcag aaaatgggac agtccgccga 300

ccagttagtg gatcgagttt cgaagaacat cattcgatgc tgagagtact gtatgaccgt 360  
ctccgaatga acatgatgcg tgaagggtga atggcattat gagacgacct acaggcaagt 420  
tgcacgagg agacaccttg gcatagtga gtgatatcaa gggataatca accgattgac 480  
caagaagcg 489

<210> 30331  
<211> 397  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30331

agcttcattg atagaaattg gtctaaattc atcaagctcc tatgagccat caacttttgg 60  
aacaagtgtg atgaaggagg gggtgacccc cttgtgatta caccatgttc ataaaagtca 120  
gcanaaacct tcaacacgtc atccttttagt gttgggtcaaa actttgtaaa gaacttaaat 180  
ntaaagttat atggactcgg actttttgtta ctatcacagt tccttactac ttctctaate 240  
tcaactctct gaaacttttc aacaagcata tcatttttca caatagggtt atgtttgaac 300  
gactctntaa gcccccttaa ccttgggtcta atccccctc atattgaaat ctctctcaa 360  
agaaacactt canattctct ntaaccagca ttggatc 397

<210> 30332  
<211> 448  
<212> DNA  
<213> Glycine max  
<400> 30332

tatgtagtta aaaagggttag tcttctagtc attcaaaatg tctttttggc tcaacagacc 60  
aacctatgta aataaatacc aataattcca taataataat attattgtgt gattaactta 120  
ttactataat actttaatat atacttggtta gcctatttaa aggattatat tcaactagctt 180  
gcatacaagt gtagactcat tagcctatgt agaagtatgt aacttattca aattcaatag 240  
acctttacca catagtaagc atttaataaa acttccaagc ttaaccaaac ttttaaaatg 300  
tcaagccatg ccttaaaaaa gcccatatcc aggaacaag gcagagctca gacctttgat 360  
ttgtaaagta agacacgctc aagccttaaa tcctaactta actcaatccg tttccacctt 420  
gacctgatca ttaccacgt ctaactaa 448

<210> 30333  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30333  
  
 agctttattg taatgttacg ctccaacatc attttgagac gcacagtctg cacaacattc 60  
 atgaaaacaa cagagggtcaa cagtntaaat atccaaggct aacggagaat gtgtatgaag 120  
 aataatatat ggcatgctta cgtgtaatcc ttttttttca aaatgaagat gaaaaaatct 180  
 aatgttgtca aactactatg tagcctctat ganaagatga cctcttctca gaagaaggct 240  
 tcaatcaacc agagttaatc aagagaacct aagtcccaa tatagatata caatgtatcc 300  
 atgacaaact aaaatatata tgtatacata tattgatata tacatattga aacaaaccca 360  
 ctagccacaa gctgcacata tatatatata tatatatata gcaataacct taagag 416

<210> 30334  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30334  
  
 tataaaactc aagggatgat ttgcaagat ctcacccaac agatcatctt tttcaggcct 60  
 agtnngcaga gtttcaattt ccaaccaaca catgatggta tntaacattc taattatatg 120  
 tggaatagga tttgtggacg atagggcgct tgtttatatt ctccaaaact tcattaggga 180  
 acatgttcta atttggatga tgcccatggt gatnttccag ttaggtgata aataaaagga 240  
 actgtccatg gattactgga tgaacaaaaa taagtatatt aaagtnttgt atcctgctcg 300  
 atgtctgttt tagtcaacat ttgagactta cttaatgttg acagtagata aaacattttg 360  
 aactgataat tgggtggtgtt ctttaagctg tatgcttgca ttacatttnt cttctttata 420  
 taataattag gtcatagcta tttctacgct tcaagtgtnt attcatg 467

<210> 30335  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30335

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agacttctat tcattcgatc acacncnaat naagctcgng cgcgggatcc tctgagncga 60
cctgctgcat gcaagcttgg ttenatttnc tcaacatang caacaacgag cgatgggtcat 120
tcatagacca ctcacccaaa tatctgagtg cgctgggtac atcaaataat tgtgctcacc 180
tctttcggcc gaatcgatta tatatatata tctcataaca aatcctacct tcgtataacc 240
acctgctact agagttgcag gtttctctca cattgctaga ggacatatgc cagccttctg 300
atagatctga tatacaacgt atctgcttcg ctaattgttt atgacctggt attgaaccag 360
acatatgtgg cgccatctac atatggctat atgcagtgtt gaatacactc acctgccatc 420
aatgagatag ggtccttcag tgttaccgct tcatagcttt caatcacatt tacggccatt 480
tttgagttat ggtcgggtcc g 501
  
```

<210> 30336  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30336

```

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atatggggcca cttttgctcc attctagcca tcangacata aggaggcccc tctgaccat 120
ggaactccat atactgacaa tgtgaagaga gctataggca gcaatgggtc acacatgcgt 180
gatctataat gtccgaagca tggacagatc cggaacaaaag actcatcatt aattttttga 240
ttaactctcg agctggaacc atagtgttga aaactgttaa tggctcgaac tttgttaata 300
caggggaaaa tcttttccaa tcgctgatg ccgctggaga cgaagctgtt aaacaaatgt 360
tattctagta gaaaccaaca atgagaacta ctaatgttta tccgggaaat tgttgaggga 420
aacaaggaac atatctattg actccgtgag cactcattga tctaattatg ctccagatat 480
tggaaccg 488
  
```

<210> 30337  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30337

attacctttt acctcgggtgg ctgaatgaag tcccgtatat attcaaacgc ctggaattga 60  
attcccaaac tttgaaccaa attccaagac cattaccttt ttctctgatg gcagattgga 120  
gtccggaata tatcgagacg ctcgaaattg attattgaac ctcaagcana ttcaaataaa 180  
catacttttt actcggatgt ctgattcagt cccgtaatat atcgagacgc ttcgactaga 240  
atgccgaaac tctgaganat tcaaacgaca ataactntnt agtcagatgt ctgattcaat 300  
ccccgtatat atcgagacgc tcggactnga aaagccgagc tctgagcaaa tcaaacgaac 360  
aaaattntta ctcggtatgt agattgaggt ccgtatatn 399

<210> 30338  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30338

gaaactcagc ttcacattca attcaagcgt gtcgatatat tacgggactc tatcagacat 60  
ccgagtaaaa gggttattgt cgtttgaatt tgttcagacc ttcggtattc catttcgagc 120  
gtctcgatat attacggaac tcagtcagac atccgagnta aaagggttatt gtcgtctgaa 180  
tttgtctaga gcttcaacat tcaatttcga gcgtccggat atattacggg actcaatcag 240  
acatccaagt aaaaatttat agtcgtttga atttgctcag agcttcggta ttccatttcg 300  
agcatctcga tatattacag gactcaatca gacatccgag taaaaaatta ttgtcgttcg 360  
aatttgctca gagcctcaac attcaatttc gagcgttttcg atatattacg ggactcaatc 420  
gaacatacga gtaaaaa 437

<210> 30339  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30339

tatcttatat ggcattccaa tctccttaat aagagatggg tganaaataa aatgatttgt 60

gaaaatcagt ggatctgtat ggatgatacg aaattgcacc atttcaattc attcttgggt 120  
cataagactc agccatccaa gattcctctt atgatatgaa tcaatagcgt tgccaaattg 180  
aataaaaaac atgactcata agatttcta aactaggatc ggctgctgcc gctatccaag 240  
atcagtaact atgcgttaaa tactccattg gattgcagca cccaattaag atatcaagcg 300  
agcattgagt agacagttgt caataattta agaacaagct ttagaacaaa ttatctagtc 360  
caacaaggga agattgaatt taacgagaag aagaagtgag aatcaccttga 410

<210> 30340  
<211> 520  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30340

gggcagtagt gcttngngang cttcgcannn ncgcgacacn ataganntac tcagctntac 60  
acaatgantt tattataaca cataatcatg ctattattat aaattgtgga aggattgaga 120  
gtatagtgga ttagttcgat gaatttcatg aaatttatat tggttcaata tatttacatt 180  
taacctctat tatataatac tgaatatttt aagcagtgac aaaatgctta ctatcaaaat 240  
aaatatattt atgcctgatg atgcttacat gtgagaataa gcatgtgaat aaaagaaata 300  
cgttataggg attcataaat tcttaaaatg tatattttta gatttttcaact cgtttgctat 360  
tctgcttaaa taacttgaca gttggacacc tggacaccca ccgaaatttc aatgctcttc 420  
ataagtcgac tattaaatgt gtcgcgcgtc actaatttat ttagattcta attctatcga 480  
aagaaccact gtgttttaat cattctataa tagatatagg 520

<210> 30341  
<211> 360  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30341

ttttcttctt ttaaagaata aaaatgaang aaggtagaag agattataaa aaaaaagatt 60  
accttcagag naagaggcct ataataatat ttatntttta ttttcatatt tactctaatt 120  
aattcaagat aggtcatggt atgcattcca ttgtccctct catntcacat tagaagggtt 180

attcttatca tgcacaacat aatcatttat tttaggtaat atctaattatt tgataatcaa 240  
tattttttta ctatataacc aaactcacia ttcanaatat ttgataagaa acatagaaat 300  
caaactaata tataaataaa aatacccaaa ataaactatt agaaaaatcc ctattacaca 360

<210> 30342  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 30342

acctataaaa ctcagcttct cctccggtat cggttcaagt cgattcatcg ctcttatatc 60  
ctcgctcga tcacactcca ctggatcat caacgccgtc ttcattttcc tttacttggt 120  
cttcggtttt tgcgtcggag ggagaatcgg aaccgaaaac gagaagggaa aggtctcttc 180  
ttctatggaa gggagtgaga gtgggagagt ggcggcgggg actacagaga agggagaatc 240  
ggcattggaa ttgaaggga gaagcggat atgaagtgtg ggaggggtga atggaggagg 300  
gggtgagggg acgtgcctct ctcc 324

<210> 30343  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30343

naagcttttag tagtagaatc atgggaccaa ctcatntat ttcanaaagg aagtcatatc 60  
tagtcaaggt ctgagagacc atacaagtnt cctaacgatn tctaattatg tgggccatta 120  
agtctatcat atgctgacaa tagccgagaa gccatgaat ctcttcnggg cggagtangt 180  
gtctgccatc gccttgacct tggctaacaa tcggggaagt tcttgactcc cgttcaaggt 240  
aagagcaaac cgatccatcc acatgggtgc ctcttggtgt aaagagtcga tcacccttcc 300  
tctagcctct ntttccgct atacttgggc atactcatcc gcgattctat gctcgtgggc 360  
cgtggctaga cctaactctt cttggtactt ggcaaagagt cgatcaccct tcctctttca 420  
gaaccatgc 429

<210> 30344  
<211> 467



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30344

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ggcaagccgt cgcattttgc aagattatat cccgagacct tgggattggg tccaaccatg 120  
ccttcttgat ttccagctga gaatatgggc gagtggagga acgccccggc atttacccca 180  
caagcctaatt tgtaaccttt accgggtttaa aaactctata agtgggcctt aggttttagag 240  
gtttttcttt tggttaaggct tggggctttt gtttttgatt tattatacag agatcttctt 300  
catctgtccc tggctttacc attctattca tttgatgtta ctcttttctg aacggcaatc 360  
gatgacagtc cccgaagact aatcctggac ccgctatcaa cttcacaaaa atgaataaac 420  
ggaaatgaag gaatgggatg gggactcccc agactagaag atggtcn 467

<210> 30345  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30345

agcttgctct atctttttct gaattcatgc ataagatact gacagttntt tcttanacat 60  
ttctaagaac gaaatagaaa ctgaaagata tggatcgcg atcaattta tcttaatgat 120  
aaagtctaag agaataataa gaatctagtc tggatcttct ttttacctat ttaatatntc 180  
taaataattat gagttctcca tttagttttc tattcttcag agacatgtaa acacaataaa 240  
taaaagactt gccaaagcca aaatcatatt tcaactataa ataaacaaga gttgcgaaca 300  
cgcgtgtaga taaattgacc actaattctg gttcgaagac cactaaataa attgacgagt 360  
ccactaatta aggagtgtct aatcgtctag ggagtataat gtatagta 408

<210> 30346  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 30346

atagcaatat gcgaaatggt tttcctaact cctacttact agtatgagat gctgttttac 60

tcaagatgct gacaacaacg agttagtggg ttatttcata atacccta atctctcttc 120  
tcttcacgc aagcgacaac atagcgtaaa atagtctatc ctatgagagc atcacaaggt 180  
ggactcaaac tgcaaaggaa gcgagcatgg tcttagcata cacggcaaca acatgtgacc 240  
ttgggttggt cttggcaatg gtattggctt cacggagaat ggtgccacca actgcgggcaa 300  
tcgagactaa tgaacataag cagacaacta tcaac 335

<210> 30347  
<211> 365  
<212> DNA  
<213> Glycine max  
<400> 30347

gttgaacatg attggattga ggatttgatt gacaaaatgg attaggggaa tgtgatttca 60  
aatctgcact tatgcagaat ttgctgggtca aaataggtgc cagcaggatt ttaactttgg 120  
tgcaaaaaat gcttgtgtgt gggtggctgt ggaaagagta ttacacaatg agttctggat 180  
gtttgctagt agatccccac ggtcacaatg taagcttatg cactatagac ttccagtaaa 240  
attttgagat cgatccaacg gttaacgaat tggatccaaa gaattgtact gtggtcttta 300  
aatgagaaaa ctatgatttt ggtgatgtgt gagcaaagta tctgcctttg ctctgtttgt 360  
tggtct 365

<210> 30348  
<211> 475  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30348

nggaggctgt ncatgcgtan tgctnacnan acaaacncaa gctnatggga naacatcaca 60  
tgggcacnaa gaagtagggg gggaaaatta tgggagagtt ttncactaaa taccaaggga 120  
gttagtgatt tacagaagaa gctacatctc acagaaacaa gaaccacaat agccttgtca 180  
agcttcagtc actagccttc aattatatag aaggtccgag gaagacataa tacaagaat 240  
taaatgaaag gaaagagggg gagtttgcta aatgggggca caagaaacct aagggggatt 300  
ttctatgca catgtaaagc catagctatt atctggacca tacatgcca ttctgggcac 360

acctagggtg atgacagatc tgctggtagc ttgtgaacaa caacacagct aagggcacat 420  
acacaagcag gcacgtctca aagaatgatt agttcttgtg tgtggacctt ggggg 475

<210> 30349  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30349

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aactcgtaga aatgtgtttt gttttatttt cggacaccaa tatgnttact cggtagtaga 120  
attgcatttg naagttgaaa ttanaattac aatnaaggat angtttgatg aatggagcat 180  
ctgtatatan ttttgcgctt atagatagaa gcatttacat tgagcacatt ttgcttttgc 240  
cttttgctta tatgtattgg ctataagggtt ttgggttaact ggttntgctt taaagttgct 300  
ttgaactgaa atccaagtgc taattaagat ttgtttagt gtagaatgca acaaggtggc 360  
ggagtggcat aagtctcaag aatctcanag aaaaataacc ttaataactg ctttgcatac 420  
atgtaacaat 430

<210> 30350  
<211> 513  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30350

nnaatggctg ggcatagagc anctncaaca ananaaacac aagcnnatcc ctttggacca 60  
acatgtgcca gttcaattac caccgcctgc ttcggtcttc cgtgggaaaa cgtcaccggc 120  
gtgttctccg acaccggctg gtacgccacc aaccaggttg ccgttgacgt cattcttcag 180  
cacagaatga aacaataccc atgcctcact cgcaaccct ccgtcggcgg cgcgttcttt 240  
cgttcctttc tacgcgggtt cgacatcgct cgctaccttt ggggatacaa catctcaatg 300  
cccgacgctg catcgctaga cctcgtgaat tggctcatga atagaccgga gtggaagatc 360  
atgaacggga gagaccatt tctcgttgcc ggtaagatca ctngngatnn tcggagactc 420  
actgaagaag aatcggattg ggggaacaag cttttggnntt ttactgctgg gaaaacatgt 480

cgatgcttgt ggtgagtcna gtccgtgaac gcg 513

<210> 30351  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30351

cctgcttttc ttttctcatc canaaggatt cgggcctacc tttcttaatt gccagtcacc 60  
ttcctgtgtc ttcctttggc aaccttcacc actgcttcaa ttcatagaaga aaaccttagg 120  
cttctcacia atcttgcatt tcattttcaaa cccaagtcac accaccaatt ttcccaaaaa 180  
gataaaagtg gtttactggc atatcatcaa agtcaagtca aactgttcca tatgcttcaa 240  
gatgagaaaa gcactactta taaataaaac ttacaatgta ntataacata gaataaatat 300  
tgtactanaa ctataatcna tataactaatt atcccaaaaag canaaaaacaa atgtcatcag 360  
gaattcaaaa ttcctgtgac tgggtcttgag tgtcctatgt ctgcacatnc ctctcatctg 420  
tcagatgaag cactan 436

<210> 30352  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30352

tggcaataaa tactcctaca ttaatctctt catgctttgn atggnnnggct cgncccttgt 60  
cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc actgcacccc 120  
caaatgcaca agtaagaaga gataattttc cgggctctcg tgtccgtaaa atgcattcat 180  
atcatgcac gcataagcat ctcttcataa catcatagtg gacatatcct gcatttgtcc 240  
gttatcatat tccagcctca cattntgcat gagtcatggc atcatcatgc atatgcgttc 300  
aacanacttt ttgatctgca aaattgcata ccatttggtt tcatgtttgc tcatccttgc 360  
gttntcctct acaaaacana aacaaaaaag ggggaagcgt gaaacttcat actacattct 420  
tagtttcatg tgttaggcac cacgagccaa ccat 454

<210> 30353

<211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30353

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agcttttagtc ttttcaactg cacaacgctc ttaatatggg aagagtatcc ttgtggaacc 60
ttcacctgac gaagacactg acaataactt atcttttcct tcttggacaa agtatggcag 120
gctggggggca agtaaatttt cttcccatca gaccttggat gcaactgtgc tcttataccc 180
atatcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccctg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacattt ttcttcacat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatatt 360
caactctgac tnttatcctt cttttgggtc ttcccaaata cagt 404
```

<210> 30354  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30354

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aagctggggcg tcgacanngc tgcgacacna tagaatactg cagcgtgtcg attcattcta 60
tgtacccgta gcaggccaca ttgtgtttct tgcattacta tccacgacga gtggactggg 120
tatacccgat gaggacgggc ttaagccatt ntacttaagg cgtgagtcac ttaactgaag 180
atagaaggaa tctgccccga acggttgact gatattatcg cgtaacttcg ggtggaatca 240
attgcgaccg ttcggtcgtc gcgaaccacg ttggaaagca taaacaggta gaaaacaagt 300
atgtaatcga agaaacatct cgttagttaa tagtgcgggg agataatcgg acggtttctc 360
tttgggatgt ctcatgctta atcgagttga ttggtactaa ggtgaaacta gagttagatc 420
aactcgctag gcagctcgcc acaaaagagg cttggaagtt gcgttttgat gctcctaaga 480
aaatggagat gtgacg 496
```

<210> 30355  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30355

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agcttaacta tatgtatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60
aacataaaaa gggaaaaggt aatatngtag cccatgctct ntctcgccgt catgcattac 120
tttcagagaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 180
tgccataaat ttctactaga aatttgcttg tttgtgaagc acatgaagga cggttaatgg 240
ggcatttttg ggtccaaaag actctagata cattacaaga accattttat tggcctcata 300
tgataaatga tgtgcacaat atttgtgaac attgcattgt atgtaaaaag gcaaagtcta 360
aggtaaagcc tcatggattg tataact 386
```

<210> 30356  
<211> 380  
<212> DNA  
<213> Glycine max

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<400> 30356
atatcttaag ctgtagctac aaccttgatc tcccccttg gcgtcatcat atagccaaag 60
aactcggaga tgagcacagt gataacaatg gagtagcaag atataagtat cagagtatta 120
aatacaataa gccaaaactca taatcaagaa ataatgaaac cagaatttaa ataacataaa 180
atgtcaacaa ccacaaaata tccaagactg aatgttaaaa acacgagata aataagcaaa 240
gtacttagca taataatgta aatgctaaga aactaaaagc cgaaatacac ggcgtataaa 300
agataaataa tcagaatcta atagcttaga agactgagga aggggtggaa gatcgaaact 360
ctgacgaatg tatccgacat 380
```

<210> 30357  
<211> 361  
<212> DNA  
<213> Glycine max

```
<223> unsure at all n locations
<400> 30357
agcttgataa tttccccaat ntatggncat attggagtga atntgatata tnaaatctta 60
tttatggnta aactgtctc tagaacattt ccatagaatn taattgaaga aattgtgcac 120
tttcaggaga aaaaaaagct aagttttgaa ttgcaaaata tagcagttgg gctaagctca 180
```

gcagctggct aaacacatat ccaccgctaa gcacagcttg agcgcgctta gtgcaaagga 240  
gaatttggca gagcatcagc atcaaagtcg cgcgctaagc gcgggatcag tgcgctaagc 300  
gcagaatgtg ctttcagcca ggctaagctc gagactggcg ctaagcccaa tttcacttac 360  
t 361

<210> 30358  
<211> 473  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30358

actcagctag aaagcaactg gatgcgttgg tcaacttggg aacctatctt gttcttgaat 60  
cagaaatctg tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca 120  
gaccttngcc cttccatgca gcaacctgga gtaattgagc aacctgaagc ttatgctgca 180  
natatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gagcaattat 240  
gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatgggtcc 300  
agccctcagc aacaacaaca acagcctgct ccttccttcc aaaatgctgc tggcctaagc 360  
agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca gccaacagtt 420  
gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat gca 473

<210> 30359  
<211> 302  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30359

agcttgnatc ggtttttgaa tacacgncat actgtttagg acgtgacata aatatacaac 60  
atgatattatt ataaattgat tctaaagtcg gacggaaatg caatgagcca gtttatgaaa 120  
caatgtcata actcctgtgt atatggttat tgcattgat gattgataaa tgactccgaa 180  
gtcttatact ttcgattaat atatacaggg ttgatactg gcgcttctta tttttatctc 240  
aatctgggtga taatgatgta tagngtatac gttgacttga gatgtttgcc actaattaag 300  
ca 302

<210> 30360  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30360  
  
 gagccctata ggggatggac cttttcatgt tacggagatt attattatTT atgcctataa 60  
 gnnngacctc cgagaatagt atggagttag caccacttat aacattgctg atgtaattcc 120  
 ttttgcaggt ggagctgata ttgatgagga ggaactaaca gatttgacgt caaatcctct 180  
 tcaaagggaa ggcgatgatg cactcctccc taagaaggga ccagtctcta gaaccatgag 240  
 caagaggctc gcagaacatt gggctagagc taccgaagaa agccctaagg ttcttatgaa 300  
 cctcaaggta aatatctgaa cccatgggcc aaggttgctg ccaattatct ttgtacatat 360  
 tagactagga tgtcattata 380

<210> 30361  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30361  
  
 ngattgggag gatcnnagcn tcgcannnnc catnatatnc ggaaagacac acgggggatcg 60  
 tntagagtgg atgtgcacgc atacttgctt ttatttacca aacngnaaca gaagcgcacc 120  
 gcatgcagca taattnttat tgtacacgaa gtntcaatta gacaaagtat cgttcttatt 180  
 aagaagactt gaactcattc attcctanat cctgaccnag catgatccta atgatcaaga 240  
 aatgcgctcc tatcctatca ttcactaaaa ctggatttcc tacaatatata accacacata 300  
 caagacaggg aaggtccaag gttatatattgc ctgatgccca gagaacagtg agtgtatata 360  
 taatcatacc taatgactga tccctaaaaa ggtaatacat atggatgaca agatctgaag 420  
 tattactgac ttccctacat attcagtaaa taccaccatg ttggttacag agacacctta 480  
 caatgcagag gattgcactt cgagaacaga cacgtt 516

<210> 30362  
 <211> 293  
 <212> DNA



<213> Glycine max

<400> 30362

ggcaatatac tcacacgttc gcggagacaa acaatatcgt taagttgtaa gcagtcatga 60  
gtgcgtatgt ttgctacact ggccagggca gcgtgcacag gattacgttg tttgcgatga 120  
accatattag taatcaatta gtaataaatt aatattttga atataataaa ttcttttaaag 180  
cgagaaaagt cacattaatt attcaactaa ttgagtgaag tccttaaatg tttaaatata 240  
ataatcaata atgtatgtac ctagtggatg tattatctat ctagttctta aac 293

<210> 30363

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30363

atcttttagta acatgcagct angaaccag aacggctgct gagttcttac agacaacgct 60  
gagagaaaca aatgaaaaga taggacgata ctgctttgct tatatgttca attgaatcta 120  
atgaggggaat cctctttcca aaggtctccc ctctctacga gactgcaaca catcagatgc 180  
ttagttcccc aatacatata aatattaatg ctttaccttc accgcttcta ctatgttagt 240  
caagtgcttg ctattacaac tataaccacc ttactcattc tataacttcc tataccttat 300  
tagaagcaca ttaagaacaa acaagaccct aagagctgtc atgggttcttg agtaagaaac 360  
caatcactgg aacacatcta 380

<210> 30364

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30364

tttttttaat aaattgtctt agtggcattt acgagagctg gtggatgaca gtaaagtnaa 60  
tgattcatag ataattgcat tattagacct ataccccagc tgagtatcag ccatcagggc 120  
acataacaag acaagactaa gatttgacct cggttagatc ggaatctaac ccatcaggtta 180  
attgtgactc ctcttataga ggaatgaacc aattaaaacc atgcataana acagataata 240

tattacatat ctacagagca agttaaatgg ctacagcagta ttcattccaca gcaccacctt 300  
 ataagtgtca ctggcctcgc acatattttaa agatgtttatt aanagaacaa agagaatttc 360  
 attactgggc aacactagtc ctataagc 388

<210> 30365  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30365

nttagttcct cccaataagt gcctgaaata tgtgtttctg atcttacaca ctacgtgctg 60  
 ttngcttgat attgccatgc atatctctat gatatcatgt gatgcaatcc tccccccaa 120  
 ggggtattgga tagaagactc caacaagttt gcgccagaga tgcaagagaa gaccctaagg 180  
 ttctcatgag ccttaatgta gattttgagc ccatgggcaa agtatgagcc cacttatctt 240  
 tgtacatatt agattaagat atcattatatt ttgggccttg tatttatggc tctataatgt 300  
 aagtaagggt ccctagaaat gtacgatctt tcagcccttg tattttaagg cacctatact 360  
 agtttttgta ttaagggtac ttttgtaatt tcacatgcat taagtgaata tgtgatgt 418

<210> 30366  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30366

agggttttat ctttgaacac gcgatcgact cgaaccgcgg acttttagtg gcctgagggg 60  
 gcgccttttc cttgtattgg ataaaaaaat atggggcgagg tttgagttaa aaaatgacga 120  
 taacgcataa taaagattcg catcagatatt tgcctctacc caaagtgtgg aatgttcgtc 180  
 gtctcaccag catacaatca atatatgaaa aaataggctt tatcttggag ttgaagaaac 240  
 tgatgcgtac gtggatattg cccactcgct ctttgtcatc ttctttatgc ataatggtgg 300  
 gccttaatag ccagaaatc aaaagcagac tccatgtaa aaattaagac ctattatcaa 360  
 ggaacctaac atttgctaaa tgaaagcttg gaactataca aaggtctaaa acacgttaat 420  
 ttcatgacct tn 432

<210> 30367  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30367

cacacccacc gcaaaacgaa aacaaaccac ttaacagaac taacnnannn nacaggggaag 60  
 ccatatcctc ancctgcaca acaaaaaccn gaggacgaaa aagcgngetc agagcgcagc 120  
 angcncttat actattgagc aaatcaagca catgcagcga gacagaagaa atgaactgac 180  
 aacacacccc aataatcttt ccacggagca aagaacacat atacgcagct gcaataacac 240  
 cattagaaga cccaagcacg ccttaaaata aattcaagac tgaacaatgg gaaaaacaaa 300  
 accacccgct gcaaaggaga aaagagaggg ccaaaagacc aaagggccat accataacac 360  
 aaggaaaaag cacaccactg agcaaaataa agctacaata gcaagagctc tcttacacaa 420  
 aacgaaccaa aaattcagga ccaccaaaaa aagacaacca gagccaaaaa agaacaac 478

<210> 30368  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30368

agagaatggg tgaacctatt gttataccca cngncgaatt cgagcatcgg accgccggga 60  
 ttctcttaga gccgaccogg agggcaggcg cagcctgttg tactatgcag cgtctctcga 120  
 ngaaacacgg cggngagctt gtgcatagta ggtaacaaa aaatgcattt ggtacaaact 180  
 tactagaagt tcttgacgcg attctcgagg agactactct atattaagct tatgctcaac 240  
 taagataaac aatgggtttca tagcgctctt tcatnttagg gtccctacag gtcttccaaa 300  
 actttgaagc tgctcttcca tttctactcc aacctatagc aaacgtaatt acgtccaatc 360  
 aactaacaat attcttgccg gaaccaaagg cacgcttgga aaggataatt ggaggatcac 420  
 catagtaaaa ataatatata ttactcaat gggattatta agaacatatc ggcccttatg 480  
 aaggg 485

<210> 30369

<211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30369

ccgactttga tcttgatgac tgcgcgctca tagnaacccc ccgangaata ngagtggngc 60  
 cagagtatca ngacattaat ttgttttcta caagcncaan agcccagagc gcttttgatc 120  
 acaaagacga tgatcttcac aatcaaagaa tgggttcaag atggaatcga taactcttca 180  
 ggttcaaaag aactttggtc tccggacccc tagactccaa cttcatgac caagttccga 240  
 gattcaagat ctagaatcca gactgcagat ccacgattca tgagcatact ctttcaagat 300  
 cagtttcaaa tggttttgtt aaaaactcga gagcacatga tttttcctca cacctttacc 360  
 caaaaagtgt tactcctctg ttatcaatac tacactattg taatcaattc ccagtggaa 420  
 aatggttgtc aacagctttc acctgaattt acaaccgttc cacttggtat caaagagtgt 480  
 acg 483

<210> 30370  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30370

aggagatttt gctcgtatat ctanggcgat tncnagctcg gacccccgggg atcctctaaa 60  
 gtggacttga ggcaggcaac cnggtgtnga acctccaang gagggcgggac ctgggagctt 120  
 catgggggtc cttcatggga ttttcacatg gaaatgcacg gaagactaaa gaatataggt 180  
 gagagaagcg ccattcatta aagaataagc catggaagaa tgagcttcac ccaccaagat 240  
 gatgccttgg attaagaagc ttggaaaaga tgcttcaatg gaggaaaaga aagagggaga 300  
 gaaagaaaga ggggggagca cgatattgaa ggaataaaag atgtatataa gtggaacttt 360  
 gaagtatgtc tcacaagact ctattcatc aaaggtacaa caaagtgtta cacattgctt 420  
 ctatctatag actaagggtc ttgcttn 447

<210> 30371  
 <211> 541  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30371

```

ggggtcggaa gaaatcgang nnaactttggn ananctctnc nnnnnntnta ngnanaagng   60
cccagcnnan canntccgcg naccaggagg ggcgagacac ggaactanat tantttcttta  120
ctcttagaag gaaatctacc tgtgcggggcc gttgggtggtg gatagtaagc aaaccaagag  180
gatgcctgcg acgcgaattg gtttgcccat ttgaatntga atgttaacct taacacacaa  240
taagcatacc aagcccagta ttgggtatgg ctctcttgaa gccttaaacy gacgaaagtg  300
cataaactcc tatttggttg tatgatgatg gagaagcggg acttttttga cctgaaatgc  360
tacaacagat taacgaacaa gtgaagttga ttcgagagaa gatataagca tctcaggata  420
ggcagaagag ctatatgata gaaggggaaa ccattaattt tctggaagag acatggggtt  480
tgaaggttct ccaaaaccgg agtcagaaga gcctcaatgc tagaagttac acccaagatc  540
g                                                                                   541

```

<210> 30372

<211> 173

<212> DNA

<213> Glycine max

<400> 30372

```

caacgattgg tacctcaaaa cctttacact gggcaatgag gggcattgtg cattagcctt   60
aagtgaacat acgggcaa at caaaaattct cacctgtcga tgtttttaaa caacaaaaaa  120
aggagggaca aaccctatga tttaatggat tgatcaaaca ttaaaccact tca          173

```

<210> 30373

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30373

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gaggataaac ttgatatcca nanataaana anaaccncgg cccantnnna gaagagggga   60
gaaggaagat aatgggtcacc ccctaggcac tccggggggc aaatagcaaa aaaaacgccc  120
cctaaaaaaa tccaaccgag gccaccgaa cgtaacgaac gaaacgcgat gaatcgagaa  180

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gcaccgaacg tctcgacgac cacatcacac tcaccgtctc aacaccaacg gaagacccca 240  
 accaactcta aaacaccaag acccgcgggc ccattggcca tgacttgaaa ccgagtcata 300  
 acctaattccc ctgtgaggca aagccacaat aagctacccg ctaccaaaaa aaaaaaccca 360  
 ccacgcggaa gacaccgcac tccgaaagag 390

<210> 30374  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 30374

aaccccatgg atcaatgcat atactatacc acaaggtcca tgagtaaaaa atggtctctt 60  
 attttatatg tagatgatat ttctacttga gccagtgaat gggaaagggtg aaacaatttc 120  
 tctctaagaa ttttgacatg aatgatattg gtcattcttat gtcattggca ttaagattca 180  
 tagagataaaa cctcgagtta ttttatgggtt atcacaggaa accctattta accaaattt 239

<210> 30375  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30375

ggactttttc tttttctatg aancncanna tngananatc cgncggagggtg aagaggccgc 60  
 ggcanctttt ttcttattaa aanaacaccc agggagggggc gggagacaaa aaaacaaacn 120  
 cgggagaaaa aagccaagaa ccccccaacc gaaaagatag caaaacccaa acacgaggaa 180  
 cgggacggca gaaaaaaaaa aancaacga cnaatagnac aaaacaccna aancgctaca 240  
 agggtaacga aaaaagcaca catgactacc tcaccgcaac gggagaggag cgacaagcga 300  
 acggccaagg aacaacgaca aaccgcaact ttctagtgtg tgtatacgag tccaccacca 360  
 tatatagtgg acccgactcc gaatatagcc taaacaattt tatagatagt ctatcattaa 420  
 aactaatata cg 432

<210> 30376  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 30376

aaaaaaaaaa aacaattgct cttgcacgta tactatgggg aaaataacta ttagccatat 60  
cgatcccacg aattatatgg catctcaggt taattacatg tggacgacaa aattaaatat 120  
atgaagctga caataaaaatt ttctccattt atggctactg tattttattga at 172

<210> 30377

<211> 284

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30377

atcttttagtg cctatcanac gttgacacgt ggcaatcaaa gctactgcct aacgggtcaac 60  
atccaattgt gacgtcgggg gaccaacatt gcaatttttt ataaaataaa ggaccaat 120  
cgtgaattaa attatcgng gactaaatgc caaattggac ctaaagtang ggacccaaaag 180  
tgccaatttg ccttttattt atatacccn acgaaatang tactactagt tgggtgcata 240  
ttaatgggtca aataatgcta agaagtttac tagcagctta tcat 284

<210> 30378

<211> 195

<212> DNA

<213> Glycine max

<400> 30378

gcaagaattg cagggttaaca tctaactgct ccaagtgaag attctctgca gctactatgc 60  
tcaaaataat tctgatggta gtcattttta caactggaga gaagatctct atgaaatcaa 120  
ttccttggtt tctgtgaaac cttttcacca caagtctcgc cttgtatctt cttttaccgt 180  
cagattcttt cttta 195

<210> 30379

<211> 231

<212> DNA

<213> Glycine max

<400> 30379

cgcaactcag cgcgcaaaaa cacgcaaaca cacaaaagga ctttctatag caaacgaccg 60





tcataagttt taactcggat gtccgattca ngagcttcac atatcgagat gcacganatt 120  
gaacaatgga agctctagag aaatttcta ggtcataaat tttcacaccg aggtcctatt 180  
cangcgctta atatatccag acgctcgaaa ttgaacaatg gaagctctcg agatattcaa 240  
atggtcatta cttttcactc ggatgtccga ttcaagcgta tcacatatcc acacgcttgg 300  
aattgattaa 310

<210> 30383  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30383

ggattntcta ngctcgagaa gtgaaattta gaatgaggtta catntgaagc aaactctcac 60  
ctcacacaag tacataaacat caatctaaac ttgctcanac tggatttaca cctaaaatta 120  
caccgaatnc aaaattgact cctcaacacc caattttgcc ctagaaatgg ctcttggttc 180  
actttgggtca tttgtttttc tctctagcat agcctaacct ttctcataag tcttaaattgg 240  
catttcaagc taggattaac tcattttaac ctccatttac tacagaatcc agatatagcc 300  
tgtcaactct cagagcctga ctctttttcc actcataaca ccacattc 348

<210> 30384  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30384

agcttttcatt gttcaattnc gagcgnncng angtggtatg cgctgaatc tgacctccgt 60  
gtgaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120  
cgatatatta tacgcctgaa tcggacctcc gagtgaaaca ttatgaccat ttgaaatgct 180  
caagagcttc cattgttcaa tatcgagcga ctcgatttat tatgcgccag aatcggaact 240  
tttagtgaaa agttatgacc atttgaattt ctcgagagct ctcggtgttc aattttgagc 300  
ggcttgata 309

<210> 30385

<211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30385

gggcagtcta gtttcttatg ntntcannnc nnnnananta annnaccgnc cgngcannnn 60  
 agaggggcag aagaggagca cccgggtgat tgatattcgc gcacaanana ncgagacgcg 120  
 cgaaagagaa caanggaac ccncgagcaa nncaaangaa canaacnnnn gcacaaggan 180  
 cgccgagaca ggcaccaaag acaccgagac gcgcgaccaa gaaccacggc agcgcncgag 240  
 aaaaaccaag ggacccaaca gcgaacgcgg aggcgcgacg cacgcgcaaa agaaancgag 300  
 acgcccgaan acgaacaacg gaagcccgcg agacaaacaa gggggcagaa ccgacccac 360  
 agacgggcca gacaagcgca cagaagagca agaacggccg aaaacgaaca acggaagcac 420  
 gcgggaaagg caaaggacca gacccccaac cagggagccc aaccaaccng caaaacancg 480  
 aaccgggaa agaag 495

<210> 30386  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<400> 30386

agctttgtat gaggtgaag aagctgttgc tcgtgttcaa caagatccgg tggagattaa 60  
 tttatctcag cctaatttgt cacaagatag tgacatagag ttgatggtaa atatttgtca 120  
 caagtatagc aatataggag atagttttga tatattacaa gttttattca tgt 173

<210> 30387  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30387

ctcacgttta tacctctcca tgtatcgaat agagactctg attccatang tnggaagcta 60  
 gnnatcctgt ccttgatagc ttcgatattc ttatttcgaa cacaattgtt tgaagaagtc 120  
 gtctttgatt ctctcccatg aggttagact atgggtgtgg tgaagaattga gtcattcacg 180

tgcacttccc cttaatgaan acggaagaaa gtgcatctta atgtggctat ctttgattat 240  
gagtattctt actaatgtgc atatttgttg gaatcgtgtn aggtgggtat tcagttcttc 300  
actgctggat ccataaaatt gagtgttatg gagagtatta atggtcccgc tangaagaat 360  
tacttgatgt 370

<210> 30388  
<211> 82  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30388

agcttttatc caaaatcctg actcaccata naccttgacc cagagtgaga atgtcaatcc 60  
ttaccctcgg aagcaaaaaa aa 82

<210> 30389  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30389

tgccaccag ctcgcccaag cgagctaggt tgcttcttcc ataangcacc gccttctgga 60  
gaacttcta gaaggcccaa gtgggcctgg gttgctattg caccatgt ntactgaata 120  
caccctttg cttttttgt tgattctttt tccgtaacgt taaagaatct tacgaattac 180  
gtaacgatac ttgttttctt ttogtattgt tatgaaacct tatggatcac gtaatcatcc 240  
cttttttggc ttccgggatg ttacggaact ttacggattg cgcactaaca cttccttttg 300  
actttcggca tgtctcggaa cttcacgaaa tgcctaacaa t 341

<210> 30390  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30390

ggagtagacc atgtatatca ggnaatcact cgtcccggga tccctagagt caacctgcag 60  
gcttgaacc tggcttggtt tggagcttct attggaggct gggatctggt gaggcttcaa 120

tgaggtccct ctaatggtga ttttccacca tggagatgca gcggaagaca naggaaaaga 180  
 agtgagatga ngcgccatcc actanggaat aagccatgga agaaggagct tcaccaccaa 240  
 gatgagcctt ggataagaag cttggagaga atgcttcaat ggaggaaaag aaagagggag 300  
 agaaagagag agggggggagc acgaaattga agggataaaa gaggagagaa gtggactttg 360  
 aatatgttca caagatctaa ttctcaaagt acataaatgt acacatgctc ttttatagac 420  
 ttggacttct ttaaaactn 439

<210> 30391  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30391

aatgacgagt atgtgtaatt gtaataagct ccttagttga tattctagtc ataatnagga 60  
 tgcgtgctnt aaagttttac aatgcttgaa tntgtgtgat aatcttgaat atgcatttca 120  
 acttactcat ttaactttta taatattgat ccatggttaa ggattgaaat ctttcgaaac 180  
 atgttttgga aaataacttaa gtttttatcc cgcacatcanat aattgattat atgatgatat 240  
 aattgattat cttgatgatg atgcctttgt ttttcataat tgagaaagac tcanaattag 300  
 tctattatct tgagtgaata attaattata tggaattgaa acaaatttta ctatcacaga 360  
 taattaatta tatgatgata taattgatta tatg 394

<210> 30392  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30392

agggagagtg anncttcggt actactccgc gatttcgagc tcggcccccg gggttccttat 60  
 aaggcgacct tgaggcttcc aacnntttta atctttcctc ctgactactg gctctggctt 120  
 tttctcctat caaatcatat gcactgtgag ttgaatattt gccctctgga tctgtaagac 180  
 cactcccaag tatctgaacc cttgttgtgg attttatttt ctgcaatatc tttgagaaag 240  
 ttagccgcta aggtgatctt attgtcaaac aaggctcttc ttcaagcaaa gttccattcc 300

caccccatgc cttgataccc ttccatggat cttatgaatt gatgcttggt caatgagaac 360  
 tgataaagtc taggttcttc tttggcattg acccaaatg aaatgatgcc gaattgaggg 420  
 accctcattc ctttgataca ttagatttaa n 451

<210> 30393  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30393

atatatatta gaggatttgt atataaatat gtaaaaatat ataaaaatca ttatccaaat 60  
 taatatatat tcaaattgatt ntatattcac acatgtcttg cattatgtta atttatgcaa 120  
 acatantttg aaaattatta tctttataag catattcgca tttgcatatg acttttatat 180  
 atatatatat ataattttta taagaaaatt agtaataaaa aatatattac attntgtaat 240  
 tattagttnt atactcctat catcataagg gggaaaagta tactactaaa ataaaacttt 300  
 aaatttattg ggtttatact catatcatca agtgacta 339

<210> 30394  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <400> 30394

acctttttta ttgcggctct ggaaaacaaa ggtcaggggt ccgcaatatg tgaaaatgag 60  
 gttccaagta cttcggattt ggtccgacca tgcccctctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccgg cgtttacgca acaagcataa tggtaacctt tacgggttta 180  
 aaagctctat agttgggcct aggctttaga gttttctttt tggttaaagct ttgtgtcttt 240  
 tggttttgaa ttataatac aaggatcttt cttcatctgt tcttgggtctc taccattct 300  
 cattcatttg catggttact tctttttctg aaaccgcaga ttcgatgacg agtcccccg 359

<210> 30395  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 30395

gacatcaacc ggtccataga gtgtaaggag tatccacaag gcgcttctgg caacgacaag 60

aggatgttgc agaggttggg aactagtttc tttctaagtg ggggtatcat gatggacctc 120

attggaacct tgtggccttg gatcttcttc atcaatggaa gtccttgctt cttgaattta 180

atggcagcaa aatggaaaag aagaagagtt gagaggagac accacttcaa ggagaagatg 240

agtctagaag aagctca 257

<210> 30396

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30396

agctaatacc agtatccaga ttaagtggaa aacacgttcc aaaggtggag aatggaaatg 60

gccttctca aaaaacctaa tttcaaccaa atatgagttt aatttttcga caatatgctt 120

attaaatcat ttaagaaagc tngaactagc tatgcttcaa atggaatcta aacacaagtt 180

cttcaaaaca aatctaaaac atgataatag aaatcaatga agtcacaagt gaaattaaaa 240

agctaacaat agaaaaaata tattgaatca caaattctta tatagttata caaatcaaag 300

ctcattggaa aagaagaaag aaagaagaga aa 332

<210> 30397

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30397

nnaaacggaa cttttagttt ctacncatta aacacaagcc gaaagactan ctgctccatt 60

tacataaaca accaaaccac ttggttatat ttccgcatca tatggataga cctggacagt 120

gtatcatcag cagtaaaatc ccagcaaata atatattcaa tctaatatt aaccggatta 180

ctgcactact tttctttcac aaaaatggaa aaattaccct ctcccatggg aaagttcgaa 240

atgagtntac attagggcaa gtgttgccag actacttatg tatcgaggca agcaccttcc 300

caatggtgca gtgttgctta aggcaagcat atttgcacc taatctacan ggcaacacng 360

aagatgtaaa ggcatacttg cttctataaa ccatagtagg tccttgtgaa tgccctcaca 420  
gacctgagat agttacacct tacggcataa caaggctatc aatctttaca gacctn 476

<210> 30398  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30398

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gaccagcagg aagcgcaaca ntttttttta ccaaaggncc aaaaccacag gggcgggggg 120  
agangcangc cacccaacgg aagacacaca cgaagaacaa gggccatgaa caccgggaag 180  
aacatccagt gcatcaagat ggccaacgtg acgaaacaaa gacgcaagga aagcccccg 240  
ggaacaagcc aaggaacaag ccggaacgcc ggaactgcat gaccaggata tagacggaca 300  
aaggaacata cctaggagaa aagagaccca ccacgcaagt cgcaccattg gaaagaagtc 360  
caaacaaggc ggcgaaaatg gaccaacaaa caggaaacca actgggcccg ggaaggggag 420  
caagaaaaca catccaagg 439

<210> 30399  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30399

aataggtttt agtttctanc tnataananc ngccacgcga cgggagaaaa cccccacct 60  
tgtctttacc acacnaacag ggggggggtgc acggccaccc agaggggaaa cccccacgag 120  
caggggnaca ccacacaaag caacgctcaa ccttaaggaa gactgctaca aacgtcgttc 180  
actcacttct ccaccaggct tcctatggct ccttcaatgt agtccaccac atccatcctc 240  
cataacaaaa gaggcagctc tcttgccaaa acatgcgaaa ccgagggaaa cacagcctca 300  
tcttttatac ccgtcaatgc gacaatgctt cccattccat cagatccag tattctacta 360  
actgcttacg gaacttgcca aaacaccgca tatgcaatag ccttn 405

<210> 30400

<211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30400

ccccggggta ccttagagac cccaggcagg agccacgttg gtgancatcc tagacgcaga 60  
 tcgggagcta tgcaatgaca ctcaggtgtc tcgctaacgc caataccttc tgatagaaaa 120  
 gtatgaatag gcttagcacc ttgctcgcaa acctattctg agaaaaaaaaat ttttcgggtct 180  
 cgactctcgc gggatatcgc actgacccat gactacagat tataagccgc tcatgccttg 240  
 tcgcgctcac gccagtctat tctagtggat actgctttct tttgataatc tgaaatctgt 300  
 ctagctcaat ggatacaatg gtctgaaga ggagggcact tcctaccccg 350

<210> 30401  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30401

ggcatccttt taccttcnga ccgtgaacct agannacnaa cccacgcttg aatgactggg 60  
 atgtctgagt atggccagcg actttcattc atctcttgcg gcagcnggaa cagggcgggt 120  
 cttagtaata atatgctctc actacagacc aactgtgaa cgggcactnc tattactcat 180  
 gatcatgcat ccgagatgag ctcaagggtg tgaatccgca cacagcttgc tcattgtaaa 240  
 tgtgtgcaag aatatcttga tccttataaa cgaaacgagc atnattctat aaaagtagag 300  
 aatgtatgta gaagtgcctc tgtttataaa tcaccgcatt gaataacaat gaatattcac 360  
 ttgttgca taatttaa gacacacaat atctaaatgt gatgcagtac tcacacgcta 420  
 taacataata gntttgtgac cctccccag cgacaatgtt cccgcgacct gacaggatgt 480  
 gccct 485

<210> 30402  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30402



ncccccttga tgcttgatac cacggcgatt tcagctcgca cccgggatcc tcagagtcga 60  
 cctgcggcat gcaagcnttt tatccaaagc tcactctggg ggngaagctc cttttttcat 120  
 ggcttattcc ttatggnatg gcgcctctct ctcaccttta tcctttgtct tcccctgcat 180  
 ctncatggtg' gaaaatcacc attaaaggac cccatttgaa gctcaaagat ccagcctnca 240  
 tagaagcccc acaagcaagc ttccatcagt aattntccca gagtgtacag gatagcacct 300  
 gtccactatc agaaggaaac aacaattaat gtatcaatat atcagcaact aatcatcatc 360  
 agatacaaac aacaatcaca cccctcaat taattgtaaa gaatacctca aatccttaaa 420  
 tcaaacaccc tcgatttttg 440

<210> 30403  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30403

tatgtataat ttttgaaggt acagatgtag aacgtttaat tagtttantt aacaaaaagn 60  
 aaacaacatt tctagcattt gatgagaatg aaatgggata tactacaact tgcacatgtg 120  
 taaattttatt cataatagta tattggaaaa tcatgagttg cttgtagcat tcaaagaagg 180  
 agatcaaagc aatatTTTTgc gattatgaaa gcccctaaaag tttggggcctt agaaatatgt 240  
 agtgcgatat tgtgattttg tntgagatta gtggaggcta gtgatattga aggttgggca 300  
 acatatgtgt tacacgagaa attgaaattt aaatataaaa aatagtcgaa aatatganat 360  
 aaagaacaac tttggaatgt angaaaaggc tgcataaatt gaaagaacaa attatataat 420  
 ggtattgtag tg 432

<210> 30404  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30404

agctttcntt caacgaagag aagagaaaga cgggagattg cggaatata agnagaaggg 60  
 atgtctcttc cacctctagg acctcacaat cactcacaaa ctcactcaa gctctcaaga 120

cggcttcctc ttcaagctct ggtctctgct aatcttcaca caacaaaatc tctcaaactc 180  
 tttggaactt ggacctttct ctctctataa ctaaagacat gccagagctc ctcaagaaaa 240  
 atggccaaac tccatctcta aatctgattt tatgcttaaa taggtggctt tgattgtgct 300  
 catgcgctta atgcaactct ga 322

<210> 30405  
 <211> 319  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30405

tttgtgctag tgtgcttagc gtgactatgg accgctcagc tcacattagt ggattttggc 60  
 ttagtgcgcg ctattctcgc tcaactggatg gactgaagcg gngcgcttag cgggatgacc 120  
 cttegtcaa tgcaaatgca caactcattc ttgctctaga ttcttctcgc cactcagctg 180  
 aggagtgatg cgctcatcgg atggctcgct aagccagaag attggcttat cgagcggatg 240  
 aaaatcaaca cttcacgaac ttgcctagat aactttgaaa tgagaggaaa tggttattaa 300  
 acacacaaga tgggagttc 319

<210> 30406  
 <211> 103  
 <212> DNA  
 <213> Glycine max  
 <400> 30406

tcgcgaccaa tttcttgttt gacatcttaa tcttgaattc tggcattcat ccactaatat 60  
 cacatatact cgcgcaccac catgcgtgag aggctctatc ccg 103

<210> 30407  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30407

atggtttctt ctaccctact cctatcgact agtggagcca gtccaagtga tagaggtgtc 60  
 atcctctgaa gaggatcctg aggaggacct anaggagtta cctcctgagc ctgctgtgga 120

tgctcttgac cttccagagg atgatgagga cccacttctt gatgtggatt ctccagagga 180  
tatcttgtca gcatttgaga cagactctac agaggagagc ggccctggag ggatagcgaa 240  
cagtgaagac ttttcatcat agcagacgac tccttagact aggcttacat actttttgtg 300  
cgtgggtgta tctaagtcag actgctangg ttactctttt gatttttggg tgg 353

<210> 30408  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30408

ccacagcaga acaattatga cttttccagc aacagatata accctggatg gaggaatcac 60  
cctaacctca gatgggtctag ctctcagcaa caacagcaac ctgctccttc cttccaaaat 120  
gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaaccccag 180  
aaacagccaa cagttgaggc cctccacaa cttccctcg aagaacttgt gaggcaaagt 240  
actatgcaga acatgcagtt tcagcaagag accagagcct ncattcagag cttaaccaat 300  
cagatgggac aattggctac ccaattgaat caacaacagt cccagaattc tgacaagctg 360  
ccttctcaag ct 372

<210> 30409  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30409

cgccccgtgg gcttgacnta cagcgaatna ggaacccccg cgggatccaa ggagcgacca 60  
gacggaggca tttttttaag cgcggaaccc ggcgcaacgc ggggtgcatc ccggcatgat 120  
gctcactccc ttgggcgcgc cagtatgaaa tacaagcgac caatgctagg ccggacaccg 180  
ggaatatccg gacataagac atgcaccgtg cctaaggaaa tggcttccca aaagcccaca 240  
agctgagccc aaaaaggacg cccagaaaca agagacccaa cgcaacctgc agcagagAAC 300  
aaaaagaaac gtacatgact ctccaaatgc caatcagaac agaaagacgg ccaacgattg 360  
ccaaaccgtc caaatagcgc gtgctatgaa acaaaaaacg ctggataaaa aaacaccccc 420

agcgaatgg

429

<210> 30410  
<211> 511  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30410

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aggantgaag gacgaggaga ggagacgagc gtttacttag ngttcgacgc cnacnagncn 120  
ccaacacagg catggcggct angagcacc naaacacngc aacatccacg ggccacagaa 180  
gggacaccgc cgcgagctcc accgccacat tttgacgaca tcgtctttgg agactggaga 240  
tacgcaggac aaacacggta tttgaagggc ccatgggtta cagttgccct ctgagaagga 300  
gacatgatcc acacgtcagt cttatgggac gacgccctt attctgacgg tcagacatga 360  
acctggatat ctgatcact caactgactg atgcacataa ataccgtaat aaaattcctt 420  
caacagcacg tgggacggaa aaagtataga ccgtagcat cgacaatgtc ctcacattgc 480  
ggtgatggag ccagaccacc atcgcgtctt g 511

<210> 30411  
<211> 308  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30411

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atgtttccaa aaaatgctcc tttaccaagt catgcataca tccaagtnca tttangcatt 120  
tcgggaaaac ctttcattgc gttcaccctt taagcgaca ttcttttttc ttcaaaaacc 180  
tttttggtt atgatccggg aattttccaa agaaaactgg cggtcattct ttttaaaaac 240  
atgttggcct ttttagtttt ctttccctta gctttttttc ttttcaataa tttctttcaa 300  
gcaaaaac 308

<210> 30412  
<211> 495

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30412

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nnnaaatcga gatcgacngc cttagtagcnn nctgnganaa tttagannac tcaccctngt   60
ccacaaanaa tcaactaaaaa tggnnnattg tctaaacttct taaacgggcc tcttttgctt  120
tatgcggtta acatggaccg ttcaaaagca taaaatcaac acatcacttt actacctttc  180
gcgagaacta cgtangtctg atttcctctt cgatggagga tacataagag caaaaagtcc  240
ccttttgctg accttgtag atgggttagag gtccaatgcc ttaaattttt tcaccaagta  300
aatggatca ttttaaggtc caatgcctta aatgaccacc ttccaagtaa aaagaatcac  360
ttgattcgcc ccttttgcaa gaactacgta ngctctgattt cctcatcgca attgaggata  420
cccngagcaa aaaccccgct tttgtcacca cccaagaga actgtatggt ccaaccctta  480
tcgttctctc ttttn                                                    495
```

<210> 30413  
<211> 344  
<212> DNA  
<213> Glycine max  
<400> 30413

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atatattacc caatttaatc ggacatccga gtaaaaagtt attgtcgttt gaatttccta   60
cgagcttccg tgttcaattt caacgcctcg atatattaca agactcaacc ggaaattcgc  120
gtgttaaggt attggcaatt caattttctc agaactttgg atctaaattt tgagcgtctc  180
gatatattac cggactcaac cagacatctg tgtataaaag tattggcatt tcaatttgct  240
cacagcttct aatctcacat ttggagcctt ctcatatatt aacccgatcc atcgaccatc  300
cgagaaaaag aattgtcggt gaaaattcta caaccttccg ttcg                                344
```

<210> 30414  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30414

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tctgggtggga catcttgact tgctttccaa tcngacattc tctacagatt ctgccttcnn   60
```

ctatnntcag agggggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120  
ttaagtgcag atgtccaaat atttgatgcc atattttgac ttcattcttct ttggagaata 180  
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
tgctgccctt cattaggact tcactcttct catttgtcac caagcattct gactntgtga 300  
agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360  
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccattc 420  
cagtgatctt tca 433

<210> 30415  
<211> 151  
<212> DNA  
<213> Glycine max

<400> 30415  
actccatttt tatatattac aattattcat gtctgacatt tgcattgtagg gccctgcaac 60  
tattgtttcca ccaatagcta ggaataagct aaccataaca agagccatac caaggaaggt 120  
tgttgattaa gatgatgccg tataaagaaa a 151

<210> 30416  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 30416  
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aaaccaccg agcgcggcga gacgaacacg aaccacccc gagaagaatc ggccaaagga 120  
aaaccggtca tccacagact ggatacctgc gtcacgga acagaccttc aacggggaag 180  
aacctcgaac caagcaattc gacacattcc aggcgcccgc agaggccac aaagaggtac 240  
gtgcattgag agacacagcg ggtagaaccg aaagacccc cagatgacga gaccaaacca 300  
ggccactaag gcacccttgg caacataaga aaaaaaatt acaccgaacg gtgaacgacc 360  
aacataacac ggaaaaaaaa atccgacggc ggcggccgaa acgctcggaa aaaaagacga 420  
aaaac 425

<210> 30417  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 30417

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 aagcgaaaca agaagaacca aagaggtaga ggcctgatca accaattatc acatcctctt 120  
 ttccaaagaa gagaaagata agacctagat gcaagttctt aaccctaaag gaaccatta 180  
 agatcccatc cttcattgtc tcttgttcgt ctgatagtga ggcaactcca actcccaata 240  
 cacatccatt cagtccacca ccagtgtaga ccaagaagcc tacata 286

<210> 30418  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30418

nggcagactt cttcatgcag tatcngacct catnaatact aagcttacct tttaaggcca 60  
 aaccattcac cttgggggtgg caccatgtta tttggttttg caccaanagg tgggaaagga 120  
 tgggtccatca tgtgcttgta ggtgtacgat aggttaactca aataacctta ggtaaaaaaa 180  
 tgcccttggt tatttggggg tagcaaaaat actttcttgg aaaataatng aatggatgta 240  
 tatattgcgt gtagggtacc aaaaatgctc ataaatgtat atattgcatg ataggtagcc 300  
 aaaaaccttg tggattaatt aactacgtag cacagtacc tattatttaa gtaattaaat 360  
 actttgtggg tttagttaag ataggaacaa aatgcctcta caatgtatta tattttgcan 420  
 agaaatgcct cacaaactta tatgtattga ttaggttagc aaaaccttgc aattaattt 479

<210> 30419  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30419

ttccaacctt ttttgtgaat tgaggatgga cccctaactt ggggtttgaa taaaaaattt 60  
 taaaatttaa ggaaattaaa aatgcctaga attaaatttg tttgatttta atttctttca 120

tttttcaa at gcttttgttg gataaatcaa ttcaaatttc atcaattnta aattctttgt 180  
 ttggataagg caattcaatt ttctccatat gcaaattntc aattttatat tntanataga 240  
 tgaaatttta atattaaact ttatagaaaa caaacacatc tattttgaaa tattaattaa 300  
 aaatattttc atttttaata tttaaaatac taatattgat attt 344

<210> 30420  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30420

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 ncccatnccc ctgttagaat tggcattttt aatagtgggt taatgtaagt atgcatgtat 120  
 tcattgaact tggagaanaa tagggtaatt aagccgttgc taccatatgg ctttgaaagt 180  
 tgaacttaat atgctgtgtc ttggatatat gttgtttggg tgttgcattgt cttcgtaaat 240  
 tgaccaa atg ttgtggttgt gtgctgtcct cttatatatg attcttgagg gatatgagan 300  
 aaaagatgga aatttcaatt tcaattacta gtgtcttaga ctctatcatt gagtctatac 360  
 tgagagatga cttagtgtat ttatattaat cccat 395

<210> 30421  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30421

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 ctaaagngga cctgcaggca ggcaaccctt ttttttacac tncaaccang ccnnngcgcg 120  
 cgacgagtgc tacagncttc attccttctt tcacttttgt tccttccttc ttcttacaca 180  
 aattttgttg gtcttccact gatgatgatc atggaaggct aaacactcaa tcaatccaag 240  
 gatccactcc aagaaagggt gaatntgagc tctggttag tatttcaatt acgtgtgaat 300  
 gtacatcttt ttcttcaatc atatttttta ttttcatgat tatgaatatg cttaggattg 360  
 aaaacaaa at taagctatgg aatcattgtg taatctgaaa tctaatacaca gaatgtttgg 420



acgatattcc aacctaattt gcgacctcaa tgaattaagg attaattcaa cg 472

<210> 30422  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30422

gccgtatann gttttngacn tcnnnnntag nnacnnccaa gnnnnntttt gaagaccccn 60  
 ttttttgtaa aacccaccca ctttcgggg atactcacia atctcccctt gaattgataa 120  
 agctttctaa agaaattgat actctgtagt cctgaattat cctattcctt ccccttggga 180  
 taacaaaagc caaggcgtat agatttgagg atcataataa ctaacgtcat acacattgtg 240  
 gagaactata accaatcatg aaccggaccg tgagccacat cataatagat atctctatat 300  
 accataggcg aaacatatta attttgtcca catccatgca atatggaaat taaatgaaaa 360  
 tccatatatt agccaataca tgctaaatca tgtctag 397

<210> 30423  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30423

aaattatttt gcttgatctt aaagcaattc agcccggacc cgcgagatcc tatagaggac 60  
 gacctgcgcg cgcgcacacn nttttttcca naggaccctc tcgagaggag aagccaactt 120  
 cttatcatag ctccatactc taaatagatg ggtgcctccg tctgatggca aacctactcc 180  
 catactcggc tattggatat aatgactccc aagtagagat gggacacagc tagaacgaga 240  
 atgccactaa ggttctcatg agcccttacg agagatttcg ggccaaggga ctaagtatga 300  
 gccacttat ctgtggccat acgagatcaa gggttaaata tatctgggcc tcggatttac 360  
 ggctacatta tgtacgcaag gtacccttg aaagtaagaa acctcaacca cttgatatac 420  
 ggcccctaga acagaggtcc gatatgggta caacgaacaa tcccg 465

<210> 30424  
 <211> 484

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30424

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cgtcaacaca tttgcttggt gtgcacncnc aannnccggg aggggacgcc gcgnacacac 120  
ccncacacac caagnaccan cngcccgna agggcgncag cccacaaatc cactgaaaca 180  
aagactcgag cggccatctc anggatacca tgtgatatga gaaatgcctt tttcgtgggt 240  
agtgttccta cgtaacagtt gaacctagtt ctgcagccct ccatatttaa cacacttatt 300  
gagaagatct accgtctgct catcgttggg aaaggatgat aggagaagtc atcaattcac 360  
atcctgtaat ctgatttggt aataaaacta ataaattact atattctaac taatacaaca 420  
atattattcg agattatcat gcttctctct tgcggttcaa tggcataaaa tccgcttgct 480  
cccg 484

<210> 30425  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30425

agctttttat ctttcattgg tgtantttta tccgcttttg gtgctctaaa ttgtgggaat 60  
gtgctcanat atgtggtgca attttggttt gttttcttgc ttgattgggt tgaattgngg 120  
gtttgtatga gatggcccta tgcctataat gcattttgaa gcaatgggac atgccacatt 180  
gtccccgttc tcttgctatt aatgcctaaa cgcgcgcca ccaagtgttc ggtgaaatgc 240  
ctcaatggca ttaacgcgtg attttcttan ggaaacaacc catggggcat tttggtttcc 300  
acatatatttc tatttttttg gaca 324

<210> 30426  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30426

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 cttatgaaga ctatcccggt caagacgatg gngaaggaga taccatctt ggccccctgc 120  
 tccacctcan agatccatcc ccgcatgaac taccacagct gaacatagtc cgccatatcc 180  
 cggcctcatc cgcacccgta aaagaatcta ttccctttgc ggaagataag ggaaagattg 240  
 aagcgctcga agagagggtta agagcagtcg agggcctcgg taattacca ttctcagatt 300  
 tggcagatnt atgtcttatg cccaacatcg tcatcccttc caaattcaaa gtactagact 360  
 nntgatagt 369

<210> 30427  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30427

agcttttaga ggatgcttta atgaaggana agaaagagag atagtgggag cacgaaatgg 60  
 aaggaatata agaggggagag aagtgggaact ttgaagtgtc tcataagact ttcattcatc 120  
 aaagttacaa caagtgttac acatgcttct atttatagac tangtagctt ccttgagaag 180  
 ctntcttgag aaaacttcct ttataagcta aagcttagct acacacacnc cctcttaaag 240  
 ctaagctcac cttcttgaga agcttncctg agaaactaga gcttagctac acacacc 297

<210> 30428  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30428

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 ccacattcat ggtcattgtc ggagnaaatg catganttat aaatcttggc catatgcnc 120  
 gacgcgtgtc tcgtagaagc atatccattg ggatataatg atgaaactat gtgcattntt 180  
 caggtagaga aagacggcta gagttttgaa ttgccacaaa gtagcaggtt ccggctaagc 240  
 gcatatacat cactatgcgc gagatcagtg cgctaagcgc aggatgtgcc ttcagccaat 300  
 gtaagctcga gactggcgct aagcccaatt tcacttactt gcgctgagcg ngaggggtggc 360

gcttagcgca gcgtcacgag ttcagagcct atntaaagcc tgtcttgtgc agaatagggt 420  
acacaccttt tatgtcatct tctacacact tgtcacgacg accagggcac agaattcata 480  
gcccgcatac ggctattttg agaaaaagcg 510

<210> 30429  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 30429

agcttttgtt agatgcccc a gctaccggaa aaagcggctt tgacgactcc aagagaggct 60  
atagagacat tgaaaatccg acctctaatt ctgatgaatt tctaaatgat agaatcatgg 120  
ctccgtcttg aagactattg acagtccata ctcaagatgg tctcttagcc caa 173

<210> 30430  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30430

nccttaccag ggttagnagc tgtgctgccc ctctatagan taccctgcct gagactgggg 60  
cgaaggccca ttgccgttac cncngcttat tcacttttcg gagaccaaaa cctattgag 120  
agtctatctt gtgcagaatt aggggaaccac ctttaccact tttatgacaa cttctacaga 180  
caaccagggc ccagaagttt gaaagcagcc accggcctat tgggggaaaa gagccctaga 240  
agcagatata tgagcagctt gtgcattgaa gcctacgttt tgcattctga aaaaatattg 300  
gtagagagga ctgtatatgc tgataaagga ggggaatccc cttcttggaa aggactatca 360  
tctttgtttt atctattatt gtaaggtttt tgtatggctg ctaacaccct atgacgattg 420  
ctatgacact aatgaaacct atatctatga tgggtcatg 459

<210> 30431  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30431

agctgtgtta ctcccagaag actgnaagng tgctactggt gcaatttggt ttaactgtta 60  
atcaatttgt gttttatgcg ttgataaata aatataaata atggataaca tttctcaatg 120  
atctttagt gcccttggtt tgctgtgtag ctttattatc cactggctag tacaaaaaca 180  
ccatcttgca tgcattggtg gatgggagct ggcaacatta attttataaa cctatttcta 240  
gttaaaatta attctaaagt gatattgatg atattttaa atttttatta taaaactaag 300  
aagctaagt tataaaaact aattaattct ggacgtacac aatcaatttt aaactctttt 360  
a 361

<210> 30432  
<211> 228  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30432

tttttataaa aaaaaaacg gaaaaggaat tataaaaggg aaatgaaaga tataaattaa 60  
tagagaaagt tgggtggttg ccattagaat taaaaggga ttttgagat tntattttat 120  
tttttggaat ttgaaaaaat taaaaaacat tgttaaaaaa aaaagttaac gaaatcaaat 180  
gataatattt acggagaggc aatgcgattt tttgatatag ccttatct 228

<210> 30433  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30433

agggagtacg atgtatctcc gnatttataaa gncccgaggac ttaagggacc tctggaggcc 60  
cgtttgatcc anccgaaaaa acgggcgtgt atgagaaact cgacataccc acacggcaag 120  
caaccatgaa tggcaacatg ggtcccagaa tatacttgaa agccggtgga tagagtccac 180  
cgacataca gccagggaa gcttactaac aagccacgct atgacacgaa gcaatggtat 240  
ttatgacaaa acaccctgcc tctactatgt tagcgaaatt cctgatgtcc ttatcgcaag 300  
atgatccgta aggtacagcg caagagacat taggtttcct aatacacaat aagtgggagc 360  
gccctcaatt cgtaaggag acagttggtg gcacattatt tcc 403

<210> 30434  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30434

ntttcttttnn ggatccccnn gntgcntcgn gtnanttana cnaccncact cttgcgagcg 60  
 agctgttgag acacacacaa ccggttagtc agtttttgac accccaggcg ccaggaggag 120  
 agcgcaacac caaaggagac aagacacacn caggcccgac gaaggggaag gagatagcgc 180  
 tcgcggcacc cgggtccacg agcacaaaga gcggccgggc gaggagcaca gaagaacaga 240  
 gccgcgccaa aactcgacgc tccgcccccg aagaaaaatc catcgcggga gacacaccac 300  
 agggaggggac tcacgcggat cgccagacga tagtaacaac tgtgacgac gccctaacca 360  
 tgatgacaaa cgtccccccg agatcaagtc ccatcaccat cggaacgaca aggaatcagc 420  
 tgtgaacaac tggacctaca aatggccgac atgaaacata cagctctata cgatgagaga 480  
 cacatgcggg 490

<210> 30435  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30435

agcttttagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
 ttaccctcgg aagcgaanag aatagaaggg aaatttccaa tcaaagaaaa ggaaagaagg 120  
 aagatttcca atcaaagaga aagccaaaaa agaaaagatt gaaaattccc aatcaaagag 180  
 tgggagaaaag caaaaagata agaaagaaaa ttccaatca aagaatggga gaaagtaa 238

<210> 30436  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<400> 30436

tgccaactca tatgagggat aaacacataa gatcagtcct gagaaaaaat gtatcattac 60

tgatacacac caatccatgt catgaaaaga aatgtatacg gatatactat caaatatgat 120  
 tgcaccccaa tttatacaaa tgggtgtgtt tcttttgata tatgaaagaa actttgatca 180  
 cgctttctgg atctacaatc agatggacgg tataaaactta 220

<210> 30437  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30437

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 ataacttcat cttgggttaat ttcaccatca atttgaata ttgatcccat aatatactta 120  
 aaaactgggtg gtatgatatc caccacaacag tcacacaatg tttttttact agtaattctg 180  
 tcaatgatat gagcaattnt tcttattaga atagaccttg actctactat tatagcgaaa 240  
 tttctgtaat ttcttttcaa aatatgaacc taaattaaaa gagaaagaaa aaataaatat 300  
 atttattata caaaaa 316

<210> 30438  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30438

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 ttcaatccta taacgcacgt ggcgacaaaa tgggcataac tgaatggcat tattgcaatg 120  
 cggaaggtat tctgcgcttc actatccatg ttcacacatt atngcagctt gtgggttacgt 180  
 gagcatgaac tactaccaat atatagatgt tgtttacacg aatgagcaca tcttaaaagc 240  
 atactccgca cagtgggtggc ctcttgggaa tgaagcggca attcctcctt ctgatgagggc 300  
 atggacatta atccctgacc caactacaat tcgtgcaaaa ggtcggccaa aatcaacaag 360  
 gataaggaat gagatggatt gngtcgaacc atctgaccac cgacanaaat gtagtagatg 420  
 tgga 424

<210> 30439

<211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30439

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 gcctgtcata gggttttntt aaagctcggc tcggtttaca taaaagtctg gctttgcca 120  
 cgagcctatt taaaaacttg cttaaagacg tctttgatta attaattatt ttaaaatcta 180  
 gtgaaatact aacttaaaaa agaaacttat aaaatttcgt ataagcaatg tacaaattca 240  
 aaaataattg gataacaaaa tcatattgaa ttcaagtcgt taaagtacaa agtatatcaa 300  
 aagaaaataa aaagagcata atattaaaa atgtatggat tagagatgat 350

<210> 30440  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 30440

gactgatcgt tgccctttct ctgcgctaaa caaacagaga acgtcgctgc aagacagccc 60  
 cgtatccttt gtattcgcag gtttctttta ctaatttggt ggcttaaaaa gaaaattata 120  
 ataaataata agtcgacgcc taaattctaa cttaagtaag ttcaagttag gcaagacgct 180  
 aacccatgag aaaggagggg acatgggttaa tgttcccctt cagaaaaaaaa aat 233

<210> 30441  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30441

aataactatt ttaaaatgat aatttagaca aaaaattaac aaaatcattt ggattatctc 60  
 ccaatctcac ctaatacata cttcaggcgg tagctgcgtt gggatggact gtgaatatat 120  
 agtccgtgcc tgcgtaaata agattgcccg tggccttcct ttagctacgg gcganacagt 180  
 tttatggtgt taacctttct attatcccat cccaaatgct tagacattta agacaagccg 240  
 atctacatat taggaaaata acaaagtgtc tcatcataaa aaaaaa 286



<210> 30442  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30442

nggagtgtgt tcatgagaac gcaccaana aactcagcct ngctgtgagt cccagaaga 60  
 ttttaattggc gaccatttat tattttttaa ggaccataaa aaatgtagga gtctatcttt 120  
 caatcttctc tcaacatcat tcaatatctt tcaactgttt ctacaaaaat atcttgaatc 180  
 attcctcttc atcttccaaa agtcttgggt tcaacacttt cttttccaaa acaagtcttt 240  
 gtcaaaaact cgtgctatca tatttttcatt ctctgtcttct ttcccaaaga caaagactaa 300  
 ccgctgattc tttgtgctct ctcttcttac aaagatcaag gacaaccgct gaaatctttg 360  
 ttcttccttc cctagcaaag attcaaagct aaccgctgaa tactttgttc cttacaaga 420  
 ttcaaggata ccgctgaaa 439

<210> 30443  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30443

agctttgttc ttgacanaaa ataacatttt gaatgggtgtt aatatatata ccagtttact 60  
 aatgtatata tacttgtttt ttttaatatg agtacgttaa caaattatac ctagatatta 120  
 tcttacaata aaccaataat ataacttatt aacacactta aaatacacca ataatatacc 180  
 tagatatattt aattaatata taaatagagt tatattatta ttattaataa atactccaat 240  
 atttctatga taaaagcaca tgcactttga taatgaaaaa ttacctttct tataaaatat 300  
 gatggttcta tgaatctagc atactatgaa taatatataa agttttttta ttcataaata 360  
 tcaaa 365

<210> 30444  
 <211> 442  
 <212> DNA  
 <213> Glycine max



<212> DNA  
 <213> Glycine max  
 <400> 30447

ctgagtaggc tgctgtatga gatctctcag aaggactgaa tgcttgggca cagaatctac 60  
 tacccatagt cttgggcaaa gtggaaaccc ccaatccacg gatttggata tgcagcttag 120  
 tggacaagga tagacaatat agctactttc ttttttaata tacctatgtc attattgct 179

<210> 30448  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30448

naacaggaat tttagtnant gcgaactata gaaacacaac ccgggggggat atcactcgcg 60  
 ggtacgaacg aaccgcagcg atttgctatt cattcgccac ccactgacga gagcggggtg 120  
 atgaggccaa aagcctgaga gctacggagc ggcccctgcc gtagacacag aaagcaaccc 180  
 ttggagttgc tgatgctgag acaagagcag caactcccac gtcaactggaa gcagcactcg 240  
 agcctctaaa ctcagcatga ccagacaaaa cgacgcgcgt caagaccagg agaagagaac 300  
 ctggagcagt gtcatectca gtgagacaag acgaagggga ggtgctgccc gttataagag 360  
 cagagatgc ctaacgaaac gagacattag aagccacaat gccgacagcg ggggaatgat 420  
 attcatgtgc caagaccaag ttccggagtca acatgtctgg atggaccagc tacgagataa 480  
 cttccctccg cgn 493

<210> 30449  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30449

agcttatatg aacaaaattg ccttaatcat tccaaatatg catgtgaatt angacgcac 60  
 aacaagaatc aagccaagc tattgtgcaa gcaatcaatg gggcaaaaca cacccaatga 120  
 ttataatgat ggatggctca nattctcaca aaggtaaaat catcactttc aaattgagct 180  
 ttcaaaaacta tcatgacatg tagagaagaa tcaaggattt caagtcacaa aatgtcaaga 240

actttttattt tcaaaacaat tacccatttc ttgaacatat cctataattc aaagaaaaac 300  
atg 303

<210> 30450  
<211> 134  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30450

ntgtcctcag atcccattgg tgggactagg ctcaatttag tcggttctcc tatgnntaga 60  
ctaacttana ctaagcttca tcttcagatc ccatttggtg gactagactt agcttaaata 120  
gcttatgaaa tttt 134

<210> 30451  
<211> 244  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30451

agctngtgaa ccgatataatc gataatattt tagatcgaaa gatccttccg gaaaggaatg 60  
taaaacttta tcattctgaa tttgacgagt ttaaaataga attagagagg cgaaacctgc 120  
acaaacgtct cgccaacctt caggaaggaa gcatagatgt ggagtggtt aaggaatttt 180  
atgccaatat ctatagtcca gcaaatcaag ctcttanata tgctaaaaca agaagccatt 240  
taat 244

<210> 30452  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30452

ggctcaacta caaccttatc gaggcctca aacactattc gtgnctccca cttccagctn 60  
tgtttactat tccatcgacc gacagaacca aggggatgaa ctccaatctt cggtcgacgg 120  
aggagtgagc tctacaacan agtcaatgag cacctagtcc ttgatggcac ctcttttttc 180

aaagatgatg ccatacttgg acaattcgat caaccacttc accatccttc ctcccaaata 240  
 ggggtttttac agaatttttc agattggctg atccatttgg atgactactg ggaaactcta 300  
 aaagtaatgt tgcaatctct ggacgtgatt agcattgccca agaccattnt gtctaactct 360  
 tgataatgcg actcaacacc ccacaaaaca tggctgatga agatgttgaa gaaatagagc 420  
 agcacactca gt 432

<210> 30453  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30453

agcttttttt accatgagat tgtttgaggc cttatgtttt tcttgatctt gtntacttga 60  
 ccttaaatac atgttgaagc aatgcttaac ctttgaatgt atggtgaact aaccttgtat 120  
 taatcttaaa gcaatgctta acctttgaat gcttggttgaa ccaaccttgt atgaacctac 180  
 attggcatca tcagaaccct gtatacatat attcacaata ggtacccgac tacgtgtatt 240

<210> 30454  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30454

gggccgctgc cattacgacn acnnncncta tnganacnca agccancngc acaaagggca 60  
 cggatggcac ccaaggggaat gattaattca gcccccaaac caaacngagg ggacaacaca 120  
 annacaaaac aaggaccaca tgccccgcac gcaaacaaag acagcgcta cgcaaagaaa 180  
 atagcccgcc acggaaagag agacacacaa tgcgctggca gagccaggag gcaaggacca 240  
 accaccgacc ccccgccact agaccaaaaa tatcaagggc acaagcaagg ccggccacga 300  
 agaacgcccc ggataacgcc ccgctcgagg cacaggagcc caagaaaaca gctacaacca 360  
 aacgcgggct ccttggccta agaggccaaa gaagaagccc cgccaaaaac caggacacgc 420  
 tcgacn 426

<210> 30455

<211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30455  
  
 agctttttatt gttcaatttc gagtgtctcg atagaggatg cccctgaatc ggacctccga 60  
 atgaaaagtt atgaccatctt gaattttctcg agagctacct ttgttcaatn tcgtgcgtct 120  
 cgatatatta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180  
 cgagagcttc cgatgttcaa ttctgagcgt cttgatatac tatgcgactg aatctaacct 240  
 ccgtgtgaaa agttatgacc atttgaattt ctcgagagcc tccgggtgttc aattttgagc 300  
 ggctctaact gtgatgcgcc tgaatcagac atccgagtga aaagtatgga ccattgattt 360  
 ctcgagagct cccgtg 376

<210> 30456  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30456  
  
 tccttgtgtt cggactctca gccacttatg atagccgtcg atgatcccat tactgcttcc 60  
 cctaagctct ctgtcctttc ttcacgccgc atcccatgcc ttgcgaactc cttggagtac 120  
 cctcgcgttg tggctactga naccctgtgc gatgaaaggc gtgatgcttt cgtctaattg 180  
 cgctcctctc atggggtagc caagctgtct tatggcgaga acgggattat aattaatata 240  
 accccttggt cccatcaagg gaacatttgg acatccttcg catgaagata gaatcttgat 300  
 tcttccttcc ttctagcgag ggaaccaatt aacagaacgc ccccatgc 349

<210> 30457  
 <211> 206  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30457  
  
 agttttatatt tctgattgng gacctgtggt ttgtgcaagc gcgtcaaaag tctacgcacc 60  
 ttgaaatggt cttgatggat gcaaaggat gttgcgattt agcttttgct ttgtttaata 120

atgagatacg gattatgctc tgctttgctg attgggtggt ttgatccctc atattgagtt 180  
gtaatttatg ggatttggtt aatcat 206

<210> 30458  
<211> 510  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30458

nnggggcgga gggaganann nnnnnnggat ccccnngna tnanactnng nanaanannc 60  
nnacnnancc nntnanattg cnacatgnng aggttaggac acagtttgca tancttaata 120  
tcgcnangc aaactgggag tctggtgcat actgaaagcc catgaggccc actaaacaaa 180  
tctaagatag ctgatgaatg tgtatactaa tgaatccaac gctgggacgt cagatgacaa 240  
tggatacacg atggtcagaa agacaaaatt tggccacata tatgttaaga ccatgtcctg 300  
cgcacaccct attgaagagg aggttacaag actgcatctc tcaggttcta aggcaagaac 360  
gcatttccca gagccataca tacctaaaca ggctctccta tggatgatcc taccatgagc 420  
ctgcggaatt tgagcacaga nagacacatt catcacaata cagcactct gttagatttt 480  
aaagtgggtgc gaccttcggt cattgaaatg 510

<210> 30459  
<211> 493  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30459

gaagttcctt gattcccaat tgtanctccg ggntaaagag atttgagaag gtttgtgatt 60  
tgaacacaan gccacggggg gttttatata attatcacct cactttaatg ctgctatgct 120  
cataagtaat tgatatgttc aacgttataa ttgtatacgt tgttcatacg ttacatctct 180  
agtgtatcaa ccgcctcggt gataatatta gagcatggat gattgggata ttgctgttat 240  
atatattgct ttaccgcttt tcggtgtcat ggctaaatta ttacctttcg ttgctaaatg 300  
cgtaatccgt acagacgatg atctacctct aatgctatta tcatgactcg taactaatat 360  
tatgaatact atatctcttc gtgtttttca tagatgttca ttcattactt acagtacttc 420

tcgtcttaca atacgaattt atagccgtac tcgtgtttat agtatagttt atacacttct 480  
actcatctac tcg 493

<210> 30460  
<211> 389  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30460

ggggcgtgaa tcatgacatg gacnccnncn nnntaganaa anccccggag nangaacgaa 60  
agagggggga cgaaggatat ttccccccca cgccaaacgg ggggggaggg aaaccaaacc 120  
accacacgac aaacacgcgc agacaagacg gaaccagaaa aaaaagagaa cggggcgaaac 180  
cagccgacgc acccagcgaa gcgcacaaaag acaaacgcga ggcccgcaca aagagacgca 240  
gcagaccag ggggcgcaca ggaagagggg cacaacaaga gcaaaaccca gcacaccgga 300  
gaccggagcc cagcaaaagg ccgggacaac gcagcgaacc acgcccacga agacagcaca 360  
agacgccgca caggaagcgc aagcaggcg 389

<210> 30461  
<211> 297  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30461

ctcatcttgg gggagaagct gcttctttca tggcttattc cttaatggat ggcgcctnct 60  
ctcacctnct ttcctttgtc ttccgctgca tcttcatggt ggaaaatcac cattaaagga 120  
ccccattgaa gctcaaagat ccagcctcca tataagctcc acaagcaagc ttccatcaag 180  
tggtaatcag agcacaagag cttcaagtag gtgctcctta aacctccatt aatttntttt 240  
ctttaccttc tcttccattg ttgggtcttc atttttatcc atgtatctcc tcacatg 297

<210> 30462  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations



<400> 30462

cggcgcaagc gctgagacct ctgactagn gcn gatagtt tttttatcg cacatcacta 60

cgctgggcgc atcatcttta ctggaagtaa acttcaagca gtgggcttag tggagatgat 120

tgttagtcaa tgaatacgac taacttttgt gtaagatatc tgtgaaaatt gtatctaact 180

cctcccatth atggttatth ggtagtgttg taattacctt ttgttaaata taggtcataa 240

gtacttagta ctcccattht gtgtatttaa taatcatttc ctttcaattt cagggttaatt 300

aggcaagtht gtgaagtgct gaatttgata tgctcgctaa gccaatctgt cggcttagcg 360

agccatcccc tgagcgcacc acatttggtg attatcgcta gacagaatct tgaagaagga 420

tgagcttgac cactcgct 438

<210> 30463

<211> 216

<212> DNA

<213> Glycine max

<400> 30463

atacacttcc ttcaaagtga agtgtgtagc ctttctccat catttggcca atgcttagaa 60

gattttcttt taggttgga actagtaaga caacatggat gaatcgctta cttttatctg 120

tctccaccgt tacagtgcct atgcctattg attctaccac actttcattt tccagtcgaa 180

cttttacttt tgacaacttg gcaatgcctt tgaaaa 216

<210> 30464

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30464

ggcagaatga tccgtcagat cnancnann nanaannnac ctncgtagt cttcatctt 60

gttttaaaac acgaaaggag ggtantttta ttttgatnct anggncggaa gtgagggaga 120

gaagcttaat aaagttactt gacaagagag gcttattaaa gtggaatttc aaaattgatt 180

cgaaaaacca cacctggctt tcaccaacct taagttattc cttgacaata gatgctgtga 240

aatatcatat tgttcgcgaa tttcaggaaa ccctaattgt ttcaaaaagg cgaaaactgc 300

cattaaacta ctaaagaaca tgaaaggcct tgaggaaatg ttcacatttc aaaaagcgac 360

ccttatggag ggtttcaaca tatattgaaa tttgatactg aggacaatgt ctcaggaggt 420  
 acgaatccgc ttagacatgc gaatgttatg aagttgagcg ataaacagta atacacc 477

<210> 30465  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30465

aggacgtcga tcacttgtat ncccccaat nttaggataa tcnccgggat cctatatagt 60  
 cgaccatgaa ggaggcaagc gttttgttct ctttatctaa cactaatcct aacgggggct 120  
 taaatccctt aaattcctaa gctacagcta agtcttctac ccaaaagtta agatagaaaa 180  
 agagaaaaag gatcaaggaa cttacttgga ccgtgtatga acgatgcttc aaagtccaaa 240  
 aaggcccaaa gagagttcaa atgcatgatg tgcaaatttc tttggagaga aagaatgcac 300  
 atgcgaagtt tctgtactat aacaaatttg agaggaactg gtgggttcact cactttaaca 360  
 cgtttgaact ttccgttaac gggacatttc gctaatagagc aaaaaatact attggttcta 420  
 aaccaacttg cttacgaaca gggctn 446

<210> 30466  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
 <400> 30466

catatgctga caatagccga gaaacccatg aatctcttct ggggcggaga aggtgtctgc 60  
 catgccttg gccttggcta acaatcgggg aagttcttga ctcccgttca atgaaaagca 120  
 caccgatcca tccacatggt tgctcttttg tgtaaagagt cgatccccct cctctaccct 180  
 cttttccgct atacttgtgc atattcgtcc gcatactatg ctcttgggcc gcggtagacc 240  
 ctactctctg gtac 254

<210> 30467  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 30467

aaatcctgac tcaccataaa ccttgaccca ggggtgagaat gtcaatcctt accctcggaa 60  
gcaaaaaaaaa gaatagaagg gaaatttcca atcaaagaaa aagagaagga aaatttccaa 120  
tgaaagcaaa ctaaagaata gaaggaaaat tccccaatca aagagtggga gaaagcacia 180  
agaaaagaaa ggaaattccc aatcaaagaa tgggaaaaag tttaaaagga agaagaataa 240  
ggaaagaaag ctctgatca tggatcgaag gaaaaacaga aaaaat 286

<210> 30468

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30468

agaagtttag ttcatgnaga cgncacacta tananactaa gcttctacct cgaaggncca 60  
atccagccgc atataatatc gagaaccttc taaattaacc aacggaagct ctcgagagat 120  
cagatggcat anactttacc tcggaggtcg attcaggcgc ataatatctc agaccctaaa 180  
ttgaacaagg aaagctctca aaaattccaa atggtcataa cttttcacac ggatgtctga 240  
ttcaagcgca taatatatcg agacgctcca aatttaacaa cgcaagctc ctcgagaaat 300  
accaatggtc ataacttttc actgggatgt ccgattcacg cgcataatac attgagacgc 360  
ctcaaattga acaacggaag ctctccaaaa attcaaaggt cataactttt cactcggatg 420  
tccgattcac gcgcatcata tatcgagacg ctccgaaatg accacggagc ctctcgagat 480  
attcaat 487

<210> 30469

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30469

tantgcacaa ccnaagcgn cgcccaaggg cggggctttc agaancagga cctcccttcc 60  
aatatgacca ggaccagagc cattaccttc gagatgacaa ttggacttgc tcatttcctt 120  
tcagagaaat tgaaccact tataattgac cacagatgat acattgagaa gtcattagaa 180

tgggaataag cactgcataa taaaacttca cactagtatt ttgggacata aagcacaggc 240  
 atacatatga ttaattcaga taacatccaa tgtttattga tgtcctcctt tgggtgatca 300  
 cccacacaca acatatgaac atgatgatgc taataaaaat cttgacatta tgtgggcaat 360  
 taatatgccc taactgtagg tgctan 386

<210> 30470  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30470

gcgatgctat ttctttatnn ctnncannna naganacnncn ggcgagacca ggcaggnggg 60  
 aataacgagc ccccccatg atttagttcc acgccccan naaaaaaagg cgcgggagac 120  
 cacggggaca cccacacaaa gacccccaan gggacacact accnggaaag acgccncgga 180  
 cccgccaaag aaccaacan gggaggacac ncacgcaagc gggagccaag aaacaagcgc 240  
 gggaaaaagc gcgcgaccaa caaagcggca agaacnggcg cgccaacgca caggaaggcc 300  
 accgaaacag anacgggatc aaagggaaac ngacagcccg aaggaccaac cacacagaag 360  
 acggcgangn caacnganc cagcagaggg aggccactcc agncgccccg cacacagaga 420  
 aaagacaacg ccgacaacga cggcgaggan gaagcccatt cccccgcaca gcaagccggg 480  
 aagacgagcg 490

<210> 30471  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <400> 30471

agctttatgc cctcaagcag cgcttttcac atgctgcacc attgttccgt gatagcatgc 60  
 acactttccg caccaacttt ttcaatgtta ttgagtataa gtagcatccc atctgttttt 120  
 ttttcatgat gtcaatgaaa tgaatatgca tggcatattg acatcagcta atttataggc 180  
 tcaaagaaag taggaggagg aaaaccaatc aataaatcat ttttggaagg ctgaatttca 240  
 cccaaagaag gacctattgt tattattaaa aacagaccag accttactca cttgccaaag 300  
 ctagctcaat tgacatctta atacaccccc taacccaaaa tggacat 347

<210> 30472  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30472

nggacttagg ggcttgatnt ctannnatng anannnacna ccgtngaata tntggataat 60  
 tctgacagga cacgatttat tatattgcga ctaatgatna naggagagcg acccaatgag 120  
 aagccgacac tgacggaaaa tcagaggaag tccctaatta aacctaaaac aaggaaacaa 180  
 gtgagcaagt ctttttttct tagtgtgagg gatcaacacg caacnttttc tcttatatat 240  
 gtctttctta acccctcaac aaattgtata tcttttaggt tattgaaaat tgtaatagaa 300  
 cattaagagt atattgtttt tacaaaatag aaaaatatat tttagcttgc ataaataatg 360  
 ggaaacttta tagtaaaaaat ataatacttt gaggatataa attctggtgg aactctatat 420  
 atatatatat atatctatat gtatatatag atatatgtat atatatatat atgtatctat 480  
 att 483

<210> 30473  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30473

agcttttgtgt aatcgattaa acatatttgg taatcgatta ccagtgtttg tttctgaaaa 60  
 atctaaagat gtaactcttc anaaaggttt tgactttntc aaatgggttt taagtttttc 120  
 taaaaagtta taactcttct gaatgggtctt cttgatcaga catgaagagt ctataaaagc 180  
 aaggctntgt tttgcatttt gaatcaatca tttttccaat ctttctaaca aactcataca 240  
 atcttttaca agccttgaat ctcttgaaat ttctttgaac ttcttcttct tctttgtacc 300  
 aaaaactttc tgaagttttc tggttttcca aaccttgaaa acttgtgcta ttcattcttt 360  
 tcattct 367

<210> 30474  
 <211> 346

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30474

gggtannaac gaaatgttgt caaatacaat aaaagtataa tttgtttata ttntnnccta 60  
nacaatggag gatgtcttca agcgtgatcc gtgtgccgcc ttcacgtga cctgacataa 120  
acattgcact ctacattgac acccctagtgt atccttaacc agtcttgcac gacacgtgt 180  
gctttcgtgc cttcagtcac tatcctgagg ttgagcaacc actccaacct ttctgtaatt 240  
gcttggcaag cctcctatga cattgacaac aacagataag gtattaccat attgcataat 300  
taaattaaat gaaattaaaa agtacatgaa tttatatgtt accact 346

<210> 30475  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 30475

aggctgcgac tttggtgacc caaacacgct atggggggga gctctcctct aacttgcgcc 60  
acttgtttca tcgctaataa tcaataagaa tctcatcact taattattta acgtccctga 120  
gcattaaaaa tattccgaaa cattgaatta cgctcttttt ataatcatct ctttaaaaaac 180  
tttggaactt agagacagat ttaaaataaa attggaaacc tgaaaatatt tttattactg 240  
aattttacta ctaaatttta aagggttttt tacaatcaa ttccatttct aaacatatgt 300  
tgaaacgatc aattaaat 318

<210> 30476  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30476

gggtcaccca cgacccccc nataaaccac cgaccgaaac gagcgagaga aggaagcata 60  
tttatcgagc cagcccacca gcgagggggg gccaggaaac aggaccaca ccccgangcg 120  
gaaagaacca ccgcagaacg caacagaaag aacgcgcggc accaagaaca cgcagaaaca 180  
cccgggaaag accaccgcac ncgacggaag ccaaagacac caaccccccc aaagaaaagg 240

aacccaancc cgaacggcca cgcacgaaaa caagagacca cccacacaaa aggccacgga 300  
 gaaggcgggg aaaacaaacc aagagacgag cgcccacgga cggaaaaaga ccgccacgga 360  
 aacagcaggg gacg 374

<210> 30477  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30477

agctngtgng ggtcgtgggc agactcaaaa ataatggaat gtgtagtggc tttgtcccat 60  
 acctccattg cagatcagtt gtgcctgagc ttgcttccct atgtttatta attttgttca 120  
 tgtttatgaa ggaatcgaaa ctttctgccg aggaccataa cgtaaaaaa ttatgcatat 180  
 atgaacaaa ataatgttt aaaactatag ggactataaa gaaaaattat cacaactatc 240  
 aggacttaaa 250

<210> 30478  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30478

aggagacca tttcatgcca tcgtacnnac nnntagaat agccttccta ctaccagcta 60  
 ataattaacg atgcactaag accattcttt acttcttaan gcgngnanga atcgaggatc 120  
 agtatactaa gccagactac aatgtaacct ggctattatt catactgtgg ttctaaaaaa 180  
 agaaagaaga gtagatcgcc ttgcttcata taaaagaaag taaaagaac actgtcctct 240  
 gtatttgtgt ttttcaatac aaaagaagaa gataccctga gaaaactgat cctcctcagt 300  
 cacctttttt ctaccacatt aattaattgg agcaacaagc tgatttcttc tccacacaaa 360  
 cagaccactc ccctcagggg ttatgtttac cccacaaca taatgcactg cagttaatag 420  
 gggacataat aatgtttttc t 441

<210> 30479  
 <211> 289

<212> DNA  
<213> Glycine max

<400> 30479

atggcatgat gcagatatca ccacgtactc aactctgata aggacactta attgtgcctc 60  
ttcatgcctt agtttgatgc acttggcaat accctcaaca atattcatgg aaatcacaca 120  
aaggactaag ttcaagccta ataatcactt catgcaatat tcttttatcc attttgactt 180  
caatgcttta tgggaaccca acatcattac atcaccaata gcattccaca agaaaccgca 240  
ttctaagggtt tgatgtaaaa taaaaatcta ccaataccat tcaatttgc 289

<210> 30480  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30480

nccgggggaa ttttgnangg attncnnata ggnacnncgg nganaaaacn atgaagccaa 60  
agattaattt tttctnanca aancennagg ggcgggttca gaattaggct gcatactata 120  
aaagtatncc ccataccgaa taatcaaaaa taccctcata cctttgagat ttaaagcaaa 180  
cctcttaaaa agtattcagg tatccggcta tgccaaatcc ttgaatgctt agaatcctta 240  
ngcctataaaa gcctctcaaa agtattcacg tatttgacta ggtcgaatac ctgagcactc 300  
aaatcattag gcttataaag cctctcaaaa aggattcaag atatgggtaa gctgaatacc 360  
taaactctta gactccttag tcttataaag ccctaaaaaa tatcatggat togactaagc 420  
cgaatagctg aactcanaa tcttaggcatt tatgtcctca t 461

<210> 30481  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 30481

tgttttactt gagaataaat cacttaatca tatgagtgc tgcgtattg cctatctgct 60  
ctccgacttt ggcatagaaca aaaagccgag tgcgtaagac atacatgatt tagaaaaaaa 120  
tcgtccacat agcgtccatt gtgcaatcag tcataaaagc atctggacta atcatgaagc 180



aggacatgag taaaccactt taaaatataa accactactc gtatgacata actcataaat 240

<210> 30482

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30482

gggactaggt agacatcgaa ncgnaantt agatacnatc ctatgactng acactcagca 60  
gagcaagctt tgatcatttc cttaacacng ncaaaggaga gagggagcaa taatgaaaaa 120  
aacatgacac ttgggtccaa tgatgcacaa cctcacaagt acagggatca gtcaggcat 180  
gacacatcaa aggaagcaca tccactcaga cacacagata agccccccaa atgaaccgcg 240  
gggttactcc cactcgcatc cagaaatcac aacaagcacg aaacactaag gtcaaataag 300  
ctgaaacctg aatgggctgg ccacacatct gtgcttttct agacatataa aacactcaat 360  
gatcaacgag agcaagaaaa tgcagttgac ataacgggca cttatacctc caaaccattt 420  
tgtaacaagt tccctagaga tgaattgacc catcatattc g 461

<210> 30483

<211> 201

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30483

agttttgatt tccttttagn aggggaannna tgcggggcta agttggagcc aaaccagtt 60  
tccctcatta agaactagct cattttcttc tctattgcct ttaattgaat acacctttgt 120  
ttggttctct atttggttct taaccctctc atgcaacttc tttacaaact ctgacctaga 180  
tttcccttct ttatgtataa a 201

<210> 30484

<211> 233

<212> DNA

<213> Glycine max

<400> 30484

atgctttgct atcacttggc cacctcgtag catatatgct tacttttggt ttaacataac 60

tgacacaatg tcacttactt cactaacctg aagccaagct gaattatgga gaagggagga 120  
 aaaataatca ctcaaaatgg ttcaaaaaaa caatgaccaa tatggaacat tcatgaaatg 180  
 aatgctagtg aaagagatgt ctataactca acaatagaga aagtgaagat act 233

<210> 30485  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30485

ttccagcctt ttatgccang gttttaatcc gaagtccaaa cacttccttg tgctttttga 60  
 cctttgtgaa agtgaccttt ccagggatat tccacggagg cccttctagg ctcttctata 120  
 ttggactttt cttgaattca aatgttagtt attcanacgt aatagagaca aatggaattt 180  
 gaataanaca gtacatgtgc actttccttt tctgtgatac ccagtccttg agagactaga 240  
 cacatgaatt tatcgtatga cagtgtgtta tatttgtatg aacaagacta gatgcttact 300  
 aaataaagag agctgaacac tagattaana tagagcatac tctatctagt tgtgggcat 360  
 attcctttaa cata 374

<210> 30486  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30486

tttaaaacta gtcactnaaa attttattat ttttgaaaga atcttcaaaa acaagtcact 60  
 tgaaaattgt gactttggaa agtatTTTca aatcagcact ggtatcgatt acccttaagg 120  
 tgtaatcgat aacacatcaa cagatgtgaa cttcattttg aattnttgaa aatcttaaac 180  
 atttaaaaca ctgggtaatc gattacatga ttatgggaac tgattacagc tttgaaatag 240  
 tttaaaaaaa tgctgggtact ggaatcgata ctactttggg atcataccaa gagaacactt 300  
 ggtaaaattg ggaaacttat gtctactaat gtttgaaaaa gnttagtac ttatcttgat 360  
 tgaagcttct cttgattctt gaatcttgag tcttgaatc 399

<210> 30487

<211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30487

agctaattaa tgctaaccac taccattgca catgtctctt aaaccgtggg ggaaacacat 60  
 gaaattcccc accacaatct acccgacttc gacccttgcc tcggatatgc cactgaaggg 120  
 caagcagttg gtggtatacc cctgcaaaac acttttgagg gcccttcagt atcacccaaa 180  
 actacacctc ttgcattcca caacaagtaa aaaccctcat gctatggtag aaatgggaaa 240  
 gttggatcat ctagaggaaa ggctcanggc cattgaagga ggtgaagatt atgcctttgc 300  
 taacctagaa gagttgttcc tagtaccaa tatcatcacc ccttcca 347

<210> 30488  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30488

nnncggttct aatactangt natctancat anaaacacaa gcccgcttg gttanacatg 60  
 aatgggacct gaattgggaa cttgattata tatttcggcc aaaanggaag gagggaaaaa 120  
 gtggttttca aaatctgcac tttatgccga attttgcttg tgaaatgtgc cgcagaattt 180  
 tgtattagtg ccaaaaaatg cttggtgatt gctggatgtg aaaaggggta tacctatggg 240  
 ggtctggaca tttgcctacc gaatccaacg ggtaaaaatg agacttatgt actagagact 300  
 tccaagtaaa ttttcgagtc gatccaaccg tttacgaatt ggaacgaagg aaatgttact 360  
 ggtgtatttg tatgtgaaaa gctgtgattt tgagttgtgt tttgggtaga gttttctgcc 420  
 tttgccctat tttgcttgtt ttggtagtct atgatgattg gatgtgggaa tacctcgatg 480  
 ttgtggaag 489

<210> 30489  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30489

ggagacgacc cgaacacagc ataaaaccgg ccccggggacc cataaggggc cccaggggcgc 60  
 cccccctttt gccgaaaccc ccacaccncc gaagggggggg acgaaacacn agcgaaacac 120  
 ccnccccaca caccaccagc aagacaacaa caccaccagc cacaccnaac gaggaacaaa 180  
 agcaggccac ccacaggcga gggcaaccca cacacgccaa gaccgccgaa gcgccaaca 240  
 gaaccaacca aggcacgacg agaaaggaaa aaaaagcaac caccaccgg aaacaaaagc 300  
 caaccggga ccagcaagca aggaaccca cccgccagcc aaacagaaga acngcaacac 360  
 gaaccacc 368

<210> 30490  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30490

aatttttttt tttattcann cnnanaanaa caagggcccn ngngggagga agcagaaacg 60  
 natttttttt ttggaccoga aacacgggag gggggggaac ggaagcacc cctccccgg 120  
 ccnngaacc cccacaatac accaggccat agaaaccccc cgggtgaaaa gcaaatgtct 180  
 aaaacaaaaa tagctttagt caaacggag gaaatcgccc ctogaaaaat gagcaactga 240  
 tagaaggagt ttccttcaa tcaaagtatt tcaagcagtt gaggcctgct aacataataa 300  
 cctttaactt gaacgcactg ctaggttagc gccccctcct gtacagggtg caagagggtg 360  
 gctcttcct atagcatatc gatcctctat attgtttgac agtaactaag tt 412

<210> 30491  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30491

gtgctattga gatgggttta aactttactt caccagagaa gcctaaatga gccttgaagg 60  
 ataacctagt ccaaggtcac cagatggaag cttaatagag gagcatgac gttgattgat 120  
 gtaagaaaga aggctnctta tacatcatgt anggaaagat atgcaaagg gagacgaatt 180  
 ntgctcaaga tgccccaaa gaattgtgac acaagagatn gngtcacatg agtatgaaag 240

gttngggagt tctagcaaat gatcactttc canacatana ngagcagcca cttgaatcct 300  
 acaaagattg tcttcangta aacgatcagg gtgttttcaa aaattgt 347

<210> 30492  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30492

cccaaagcta catctccaan aaaaacncca cggggcccaa aaaagaacaa aacagntttt 60  
 taccaggcgg gaaggaacac ggggggggggt cgaagaaata tccacacctc tccatatccg 120  
 caaaacaaaa aaaaagaagg ctgaataaca aaccctggcc aataactaaa aacacgaaaa 180  
 gaaaaccag ccgaagcaat aaaaggacac atgacacacg atcaactaaa aaaagcaaag 240  
 accatacagg tcacaaaaac ctatggtcca tcaggcgtga atacccaaca aattaaccca 300  
 atcagagaca caacccccaa agtccgaag tagagcaaaa gaaagacctg gccagagaag 360  
 ttataggaac taatcaaaaa ttgggcagac ctacg 395

<210> 30493  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30493

acctnttttg ccaatgngct actttcgcca ggaaggcatg gacaatcgca acttgtgcaa 60  
 catgtaaaac acanatggga tggcttttta cagccaggaa caaacaactg aaaccagct 120  
 atttcttgcg gattccgagc tgtcaacttg caaaggaaat acgccaaaac ctttagtttg 180  
 atatgtatgc agtcatctat ccaaagctta gtgaaagcca tgttcaagta aactgcatg 240  
 gttatgtata taatgcaact ttctttagc acttcgcatg ttggtatact tatattaata 300  
 aaatatgttg caacagcttg gaagaaatta agtcaca 337

<210> 30494  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30494

ccgggggatt cccgagatnc cnnataanac cngcagagcg aactaggcat tgcgcccacc 60  
 ttactttttac ccccgcccac aaaagcgggg aattttcatc aactactccc cctcctggag 120  
 cacgtacacc aagcaccatc tgttccacac ctaacgtcca taacgtaagg atttcggaga 180  
 cgaacgttct aatattactg tctcttctca catactcatt gaagtgaatc cagtcgatga 240  
 tttccttcac cacgaactgc atgacgnttt ccatgcacat cccttcggac caaacaccag 300  
 tttgtaccct ttogacacaa cctatacttc tttaaccgtt ttcagagcat cgcctacatt 360  
 gagcaacctt gggctctgaa gtaaaaaaat tcacttgcaa cgttcgtgtt tgttttact 420  
 cttggacact cgagaagact tcctctcgaa g 451

<210> 30495  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30495

ttttnttccc ggtttcgnnt agcttnctnt agngcgattn ncgagactcn gcccngnccg 60  
 gggatatctt ttnagagcga cactctgcag cgctgtcgca cncnntttgn ggataangga 120  
 cgannacacg aacacngcgc gggaggactg tttgtcatga tatggaatac agcatctatt 180  
 cagcatcctg ccattctctc tatgcgcgtg attcgcagcc tgtacatggg atctctcata 240  
 tacaaggcat tgcgacactt tctacttggt aagcccacta tgtagctgca ctttcttgca 300  
 catgtcatgt cacttcgcta agacgattgt tggatgaact tcccttcccg cgcaaagaaa 360  
 gcacaatgat ctattttgat gatagatctg cacaacatct ttccaagaaa tcagtgttcc 420  
 cttactaac taagcctatc gataccaggt atcattttca tacaccatgc cattcccaaa 480  
 gagatagact attgacn 497

<210> 30496  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30496

ntcattatcg attgttatct aacatnaana aaaccngcnc ggaacggacc taccgaaaag 60

agagcaattg aatcagacga caacnggaca aggcagcgag agagcagnng aaccaccccc 120

cgcaaanggg gccngcaaac ccgcgcnaag aaggaagaag ctccacnag caccggaaaa 180

aagaccaag acaannnaga gggaaagaaa aangaaaggc ctgagaaaag aacccccaaa 240

aaaagaaaga ggggcagcac catatacaa gggagggaga atgggaccat aaatgcaat 300

gaacagcaag ctcaacgcaa cgcttacaac ataacaaca cagtatatta ttttaacata 360

cgagttaacc tctggccaac aatagagatt gactaaaagg agatagaccc atagtcgaaa 420

ag 422

<210> 30497

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30497

agcttttatt atttttgcca gctgcatcan aatgggaaac aactggaggt ttttgagtct 60

ttgcctcttg gcattgattg catcaactca tgctcaactt cagcttggtt tttatgctaa 120

taatcgccca aaagcacagc aaattgcttt gaaatttggt catgaccata tccataatgc 180

ttcatcacta ccaactgcat taataagaat gcactttcat gactgttttt gtaagggtacg 240

tgcttcaatc ttttaagcttc tgtcattttt acttaacaca tacaatgtta 290

<210> 30498

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30498

acacaaaaac cagcttatca gacaagaagt aaagatattc aagagtttgt ttatacgtcc 60

taagcttaaa gggttattta tagaaggaat ccattgaagt acaaagttgg ccaaaaatta 120

agtaaaaagt tttttcaaga aatttactct cttgtaatcg ataccaaagg atgtaatcga 180

ttaccagtgg ccaaaaactga tttacgacag ctattaacat ttgaattcaa aatttgcatt 240

gtgtaatcga ttgcacatat atggtaatcg attaccagta gtttctgaac gttntaattc 300  
aaagttttaa gcttttaatc gattacacac atactgtaat cgattaccag aggagttttt 360  
cagaaaacat tctcaacagt ctcctctttt tatctgtttc t 401

<210> 30499  
<211> 76  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30499

agcttttagcg tgaaactnta acttttcata ttctttcaat tagatatattt taatattggc 60  
cttttattta tctttt 76

<210> 30500  
<211> 387  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30500

tatagtttaa atcaaaatag atctttgtat aatgggtgta ttttgtgctc tttntatgaa 60  
tcttcaagag ttgtgggtaa ggatttcccc ctttcttcta agtcttgana atccttaaga 120  
atanttttcg tccactagat acctttttgt ttagtaatgc cttgacctcc tcacaaacaa 180  
atgtgtcttg tacatcacta gttgaagtgg tttccaagaa aaaatcaact aaatgagctt 240  
gatgagtttt ctttaagatcc ctatgctctc tttcaagatg ttgaaaactt gtttagtttt 300  
ctataagctt tagagacgtg agcatatata gataaaagt gattgtaccc tttaattaaa 360  
tattttctag attcanatat tatctct 387

<210> 30501  
<211> 456  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30501

nnnaaagtat ctttgatcgc taccnggntn ntagannann cnncccgag gcacnaaaaa 60  
ggaccctcaa gcagcgcgca cncgtttttt tatgcgcgcaa aggaagccca ccaggggggg 120



agatattcgt tatctaaact ctcaaaagtg actgagaccg tgatgaatat agacgagttc 180  
 gagtcacaat ccgaatatta ctctcgaata tcggccgtag ccaggcggca tgaaagaaag 240  
 gcgcgcaatc ttgagaaggg atagaacggc aaaaattctt cgactttgct ctccaagtct 300  
 cactgaatgg tgcccccta gattgaaacg cagatgttac caacctgact attgatcaac 360  
 tcatggcgac ccttccatcc tattgaaaca ctccaatgga cacaacctag acaaatgccg 420  
 cctcagagca cgacctcggc tccacgaaaa gaaccn 456

<210> 30502  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30502

ataagcagta cagaagcann cnatagaaac nccgcgagnn cacacgcaag caagaccaat 60  
 ttatttttttg ccgcnaacaa cagccgaggg gaaacacaat aaacaaccga ctggacacaa 120  
 agaaacaaaa aaaagacaca cggntgtacc cctatctgca cagaacaaca acatctaaca 180  
 tagctttact cggaggaaca cgaaacccca agaggacaga tggaaactac cctatgatca 240  
 acctggagaa tatcaatggg gaggagagag agactatgtt ggaccagaat caacatgctc 300  
 gtcagaaccg gtgagttttg gaggggaacc acaaccacaa actgctttac aaaacctttg 360  
 gcatactcac tcaaagttat ttagagctag gcatccgcac cgtaactgtg cctaaagggtg 420  
 gacatataaa ngaagacaac gaacggggcg cn 452

<210> 30503  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30503

aggagtgnnn ctgaacaccc agtaaccgac cccgggatcc caagacacca gaggcggcaa 60  
 atttttttact ggagcacaag gaaacagccg ggagngaaga aggggaccaa cacacccang 120  
 ggccaacag gaacacaacg ggcgcgggagc cccagaagca ggaaagagcc ggccacaccn 180  
 tccacatgta aagccagaca acttctctct tagcccatga cccacgacat cgcgtgcac 240

cacagatcgc atcccaaata tccgaggcac aacccttttag accgtaatat gtggcggaac 300  
caggcgagca agctgagggc gggcccacaa agcgggacct cggactggaa caatagaaag 360  
gcggtatggc acaccactag cctctatcga cagccactca tgacacatgt gcgccggcct 420  
gcgcaccttg cgacg 435

<210> 30504  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30504

agggatantc tgaatcttga nncnnnnnnn nnnnccgagg nngcnnccagg gntggggggag 60  
aaancttttna tacaattccc accngnggan acccaccagg agggntttca tatgaagcat 120  
acatcactgg ggggtataat tccaccttat tgaaaaattt aatctgcata atatcacttg 180  
tgctcaattt cttgtgacca agtaacattg cacaatccat ttcattccaac atgtcatggg 240  
tgtggccaaa gcaacatatt gtacatacca atgatcgta ctaaagttaa cgtgaccatg 300  
aaacctagca ttgcaaccac cttgtatcat gttttcctca cgcttcctag ttgtcaatgt 360  
cagaccacta tcattctaat atccaacatg agagcanata aaaaagttgc tgtaatgtn 420  
tccttattat gaattctata acagtacttt tacggacaaa ggtaccatta tatctagctg 480

<210> 30505  
<211> 141  
<212> DNA  
<213> Glycine max  
<400> 30505

agctttttctg ttaattcatc tctgttaatg gaaacgatgc ttattaaggg agtagttgaa 60  
aacaccctgt atatcactag accctgtgaa tgaagtgaat tttatgcatg ttaaagtctt 120  
cttattttttt tttgaaaaac a 141

<210> 30506  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 30506

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 aaatatgttc cggccatact cttccttggt agccctcttg gtctcttggt caagggctct 180  
 tgcagtaatt gcattctctt cccgtaaccc ggcacactcc ttccgaacgt gtgtagcggc 240  
 caacttgaac ttctccttgg caagtattgc ctttcctaac tctcttttga gagtttggac 300  
 ttcttcgtcc tcttcgggtg cttcaaaact ctcttcgctg acgactttt 349

<210> 30507  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30507

atctatcata ccttctctcc atattanctg agtccttcat aaaaatattg gagaataagc 60  
 tgttctgaaa tctgatggtg ggggcaactg gcacatagtt tcttaaactc cttccagtac 120  
 tcattcaggc tctctccact gagtngtcta atacctg 157

<210> 30508  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30508

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 aattaggtca gttgcctctt caggaatctt taacttttat ttttccccct gctgaagcat 120  
 ctagcagttg ctttggttgg tgggtctcagt cctctataa acatattcaa ttgagttggc 180  
 tcagagaacc catgggtggg agtctttctc aataaacctc tatacctctc caacgcttca 240  
 ctcaaggact cgtcanggaa ctgatgaaat gaagagatag cagctntccc ttctgtagtc 300  
 tttgactttg ggaaatattt cttcagaaac ttttcaacaa cctcttccta aggtttcaga 360  
 ctgttacctt taaatgagtg 380

<210> 30509  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30509

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 cattccattt cttgataatg ccctaaaata gaaattcaca tcagaaaaac tgtgaccatg 120  
 atggtaaacg tcaacagaga tcatcacctt ctagattctg tatgtatata ctctttttgg 180  
 ctcgatataa caaaaaatac taattaagtt ggtagaatat taattatcca attcatttaa 240  
 agataaccct tttcataatt atcttcttgn acttgattca gaataaagat gcttggaaca 300

<210> 30510  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30510

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 ctagattaaa gaataccttg atcctcaact agttgccaag aaaattctca taaacctaca 180  
 tgatattata ttttttggtt tatgccctac attaaaaata gcccttagtg cattgttagt 240  
 ttggggggtt gactgtaaatt tattttggtg tccttttggt gagttgactg aacgaaaatg 300  
 gagaagagca ctacacagag gagcangatg aacagaatgg agaggaatga agccaagatg 360  
 aggcagttgt agtggatcag attctacgat ggtgcatact cgtaatggta caggctgaca 420  
 aagtgggtcg aatatgaaga gcccgtcagc taagcattgg tggggggtga aacaaaattg 480  
 t 481

<210> 30511  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30511

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 tatgtcaaac aaacggctct tgtgaataat tgtnnggacc cgggtgtacag ggagggcttg 120  
 ttgcaggaca agattattgc tatctatgtc aacattaaca atcaatgatt ttttggacaa 180  
 atatcaagcg gactgaaaac aaaacagggt taatgaataa aagaggactt tatcgatcct 240  
 cttttaatct tcataattgt ggcactatgc attggaccca aataaaaatc ttaattttag 300  
 tatggcctac caaaatagta taccg 325

<210> 30512  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 30512

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 atgagtaaaa atatacctcg aatgctgtca caataatcac agccagaaag aatgcataag 120  
 tcaataaaat tgggccatgg tcataatttag ctctccaaa atctgaaacc aaataaatac 180

<210> 30513  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30513

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 ttgaaaaatc tgaaaagggg ggcaaaatgg gttgctttaa atttgtagtg gctccagct 120  
 gcaacatgct gttaatgtgc cattgcaactg ttataacata tgcataataa ctacaagtaa 180  
 aagtcttgct ttatttaaac cttttngtgg taaatctgct tattagaact caatatg 237

<210> 30514  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30514

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ccagggaccg tcattttttt acacggaacc acaccaggng gggaatggga tacaatattt 120  
 tacatcgaga cggacacatt tggggatact aggcgattca ggtatactaa atattaaaaa 180  
 tcgaattagt tgaactttta atttcttaat taaatccttg tggaagagac gaataggcct 240  
 ttctttggag tatgataatc actgaacctg tgagtcacta tctttataag attcgacagt 300  
 cacatactca atatgatata ttctcatact attaagtgat tatatttatg cctctagtga 360  
 tgatgtggta atgagcatac atgcatcatg cagattacat gcatgcacgc gtgtaaataa 420  
 taatggaacg tgccatgtgt catgtgcttg cttctgtcga gttctgaaat cagacattat 480  
 ataaagttgc tn 492

<210> 30515  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30515

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 caaagccnc acgcncccc agagggatcg gacaaaaaaa acccgccacg aaacgacctt 120  
 ggctataaaa gaaagtacaa caaacacggg aggcaacgac aacgacacac aaaaatgaca 180  
 aacgcaccgg ggaggggaac aaaccgacgg ggaatccagc taagaagcag cgggacgccc 240  
 atcatccagc aaccaagctc tgcaccatag aagcaaactg accaacggaa aaacgcaggc 300  
 accacctggg gggaaaacaa cgaccgacaa ggctgaaccg caaaacaagc cagaacaaca 360  
 acacaacca gcccgccac agaagaggcg gaagaaacgc gcccatacag gcc 413

<210> 30516  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30516

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 tagttaaaaa aaaaggaaac ctgattataa aaaaaagata tgatttttgt ataggaaacct 120  
 aatagcatat gatttttgta tagaaacata ataggatagg ataaaatatg atntttatnt 180

gctctagaat acagaaacgg tatgaaagaa aaaagaaatc taataggaat agaaaaagga 240  
 ttaacatang anaactaata aaaataatga gaaatataaa ggaacaccgg actcacatct 300  
 tgt 303

<210> 30517  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30517

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 acatccacaa tgcgcgcata aaccacccat cccctgttgc ccacgtcaac tgagctcacg 120  
 tactcccacg tagcccatat nctcgttct ctcaacaccg ggtccccatc aatccttcca 180  
 agcttncaca acatccaagc caaacaacat tcacacagca caa 223

<210> 30518  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30518

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 cggcactaca cgccgtgccc tttgtttaat ttgaatccaa gccccatcct ttcggggggc 120  
 aatgcccctc tcattacctc tatcccgggc aagacgatga ggatggagat acccatcttg 180  
 gccgectgct ccacctcaaa gatccgtccc ccatgaacta cccaacgaa catagtccgg 240  
 cctatcccgg cctcacgcta acccgataaa gaatatgatc ccttcgctga agatagggag 300  
 agatcgaggc gcttgagaga gggttaaacca gtcggggcct tgcaataaccg atatatgcct 360  
 actcattacg atggcgccac aatcaattca tccagttcaa ggccggcttg tattacaaag 420  
 gacactgtcg atgggctctt cgatgtttgc gaagatgggg 460

<210> 30519  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30519

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ataatnttgg tcctatagaa gaaataataa aacaattcgg agatattctt gcattgtata 120  
tccccctgc tgctgtgtac agagatccat attctattca ggtgtttgaa ttttagaccc 180  
tctataaata agatttttca tcatatcagt tntctaagt actaaatata gagaagaaat 240  
tgctctgttt ttgccattta atttatagaa aacatttaaat ctctctcaaag gggagtaatt 300  
ggaaagaatg ggttgccctaa tttctacaaa ggctgataac tttttttct 349

<210> 30520  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30520

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cagcccttgc gtactcaatt tccaatatcc tttcctataa ttgattattc aaaactgtta 120  
gctataatgc tatgacatca taacacgtag taacaatggg ttgtttccta tgtaagaaa 180  
taaagattag agaaattgat aagttattgg ttgtataccc aatttcaatc cctggaattt 240  
caacaacttc cttgtaagtg actaaatggc ataaggttgt agatcattcn gtttcacatg 300  
attgaaa 307

<210> 30521  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 30521

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aacgaacatc atcttttttc tctagattct caaactcata attctcattt tgaaatttgt 120  
tgagtgttcc cagaacttca tccatagaaa gacttaattc attgtctcct tgcacacacc 180  
gaaaggccaa ccctgctact gaagtttagta tccttttaac tacttggtct gactcaaacc 240  
caaaggatgg gtctacaagc tcactaagct ttactttttg cacctttttc atggcaagat 300



ttgccaagta gcttcatctc

320

<210> 30522

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30522

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ctggaggagg tttgggtttt acttgctttc tccctgagtg acattgtatt ggtggtatat 120  
gagtgttcat ctagaatttt tgtgcatctg catcatatga atagtgagac aaaattttct 180  
aagtagaaaa gttctcagaa gcgaaactct ctatttaatt gattacaccc tatcgtgatt 240  
gttacccaag tgtctgagct tgccggagtat gtctataccg tttaatcgat atagcctctc 300  
gaatcgatac aaattgtgat gaacaatgct gactattcaa gagttctctt tatcgatacc 360  
atggaatatt gacactctct tcatagcagt caaactccag tgtctatctc ataccttgca 420  
ctacatcc 428

<210> 30523

<211> 276

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30523

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cgtgaagtgc gtggctacga gtgggaacttc gaatattcag gtttgggtgg acttctttct 120  
ctcttaaatt tcgtgggtat ggggttntgg gagatatgat gggtagtctt gctaggtttc 180  
tgctgtatga tgattatttg tgaagaaatt tggtgaaagc ttggtgaaat cgccatgttg 240  
gatgagttaa acatacccat ttctgtttaa ggtttt 276

<210> 30524

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30524

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 cggtccctt tccatcattg ngggtaccac ctgngccgcc agatccctcc accttttggg 120  
 cgtgttcttt gaaagatccg tccccctttt tgcaaagtgt ctgtaattgc atcctatccg 180  
 gaaccatata aaaattgtac tgatactgcc taacaaaggc aaccattang tccttccaag 240  
 aatggactcg ggaagattcc aagttagtgt accaggtaac agctacccca gtaagacttt 300  
 cttggaagga atgtattagc aattcctcat cttttgcgta ttcccccatc ttctgacaat 360  
 acatcttttag atggttcttg ggacaagtag tccccctgta 400

<210> 30525  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30525

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 acgtaactac ctatgctata aatagaagca tgtgtcacac ttgtggtaac tctgatgaat 120  
 gagagtcttg tgagacacac ttcaaagatc aacttctctc cttcttttcc tccttcaatt 180  
 tcctgctccc ccctctctct ctctctcttt cttttcctcc atagaagcat cctctccaag 240  
 cttcttatcc aagcaccttc ttggtggcaa atctccttct tccatggcgt attccttagt 300  
 catatgccat gacaattaac a 321

<210> 30526  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30526

cacactgtat taacatgaag ctgacgattt caccaatccg gatgaaagta tttgtgagtt 60  
 tggacttgag tgtttgtgag ccaccttgat gtcaccctaa catcaagtgt tggacctgag 120  
 tgtgtagaag tgatctctat tgntcagaga gcaatctctg gtgtgtattt gatttaattg 180  
 tatacaccgg agagtgattg agagggagtg agaggggttc tcatatc 227

<210> 30527  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30527

ttcnttttgg nttaagctca cattggcatc acccgcataa tatacggact tcaggtaagg 60  
 cagtctgcaa ccacgttgca taactgacga cctaaataag ttgtcatgtc aaacaanatt 120  
 taaaactaaa atataaataa natttaacta atttcgtcct attcaataat atcatatgta 180  
 aaaaacctta ttcaccaaac aaaatatcta aaatatcctt aatttaataa aagtttattt 240  
 taactacgtt ttttcctgtg cgagtaatga aatgatactt aaaaaatatt aatttttaat 300

<210> 30528  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30528

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 caggtagatc gtaaggaanc cgtttgattc cttaccaaca gnngcgacac ggagggggcg 120  
 cataacatca taaacacaca tatctcagat accttaatgg tgcaatcaca atttacacac 180  
 gcatgacgat gcaggggacta ggtactatca tgcccacgac ggcgtatcga gggcgccac 240  
 ttcttgacta cagaggaaca catcttcggg ttagaatcgt ggacgaacaa tgcaagaact 300  
 acaacgtggc tcaaggacaa gaaataaaaa gacttcccct cgttgggatg ggagaccaa 360  
 tgcactttct tcataataga agctcactgc atattgaata cgtgcggaac aatcttatca 420  
 ncggagactg taacctaata aggtcaagag tctacaaatc atagatgtaa cctgggtc 477

<210> 30529  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30529

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ngcaaaattg gatgagggaa agtgtgatat cgaaaatctg cacttatgca aaattttgct 120  
gtcaactaag tgcagcagaa tttggctctg tgcaaaaaat gatatgaaat tgctggttgt 180  
ggaaagagta gcaccgattg ggttctggac gttttctatc agatcccaac ggtcaaaatg 240  
tagatttatg tact 254

<210> 30530  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 30530

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ttaacgggtt cattaataag tcagattaaa aaataatttg tcaaattata attttggatg 120  
acgcttacgt gacaaagtgg acgtttgata ttgaaaaaat taaaattact tatttaaaac 180  
aatataagaa ctaaacgtct tcatttagag ataaaagact caaaatctca gatttaaaat 240  
aatggtgaac caaaattatt aataaaaata tataatcggtt ttaaataattt tattttcg 298

<210> 30531  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30531

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ctaaaccaa gttcacttag catcacgctt gttacaaagt attagaatgt cgcaatatct 120  
ttaatgtatc tcagattatt gttaggatca tattgcaagg tgtgagaagt gagtatcaca 180  
atgaaagttt ggcattctaa tgtaaggttt attaagcctt aaccttgagt tctcaactac 240  
aatggctngc ttttgtggtg tagttcttcc cagagtctta ataattggta ttagagcttc 300  
ttaccatgtc tctatgct 318

<210> 30532  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30532

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ttctcacgga ggtgagctta gttatgagag ggggtgtgtgt agctaagctc tagcttctca 180  
aggaagtttt ctcaaagaag cttctcaagg aagttttctc aagaaagctt ctcaaggaag 240  
ctacctagtc tatanataga agcatgtgta acacttggtg taactctgat gaatgagagt 300  
cttgtgagac acaacacaaa gttcaacttc tctcctcttt cttcttcaat ttgtgctccc 360  
cctctctc 368

<210> 30533

<211> 277

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30533

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ttctaccaac tacaaaacct aagaagacta tattatctac acaaaaggta cacttctcta 120  
tatttgcata gagggtgttt ttctaagga ctgaaagaac ttgcctgaga tgtcctaagt 180  
gatcatctag gctcctactg tacactanaa tatcatcaaa ataaacaact acaaactctac 240  
ctatgaaatc cattaagaca tgatgcataa gcctcat 277

<210> 30534

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30534

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gaaaataaca caaaaaagtc cttattacaa agacaactca acatggcccg aaatacaagg 180  
ctaaaaccct atactactag aatggccaan atacaaggcc tagacgaagg aataacctat 240  
tctaatactt acaaagataa gcgggctcat acttagccca tgggctcgaa atc 293

<210> 30535  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30535

ccaacctggt aggcctagaa cctcctccac caaggaaggc ctaacctact ggaaaacatg 60  
 gccactggac cggagaagga aaaagaataa tggaaaacgt cccttcaagg aaaagatgag 120  
 tcaagaggaa gctcaccacc atangaagac atgcgataag atcttggatg tatgagaaag 180  
 ataattggca agagaaggag agaaagggta cgatatcttg tgctcaaata gaggtctgaa 240  
 ctttgaaagc gaattcttaa atgatcaaag gtgacaaaat gcacacctat ggcttctatt 300  
 ataccctaag ggcacaaatt tggaggaaat tgaatctcta taacaattca cttgaattga 360  
 catgaac 367

<210> 30536  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30536

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 caaccttaat tatgggttcc aacaagnnnc ccaaattccag gagtaccatg aagggataga 120  
 gaagacatac tgttgataaa caccacaaaa atatagttat ggcaaagcat tattttttcca 180  
 acctttttaa aaatataaaa ttattaataa tattttccact aattaccata ataatatatt 240  
 aatggtagaa atacttaatt cttttaagtg gataacatan agcctcttaa naaattgtga 300  
 gcaagccaac ttgttatcta gtccgttctc atacacattc ctaggagnat gtatcatatt 360  
 catttttcaa tcanaataag aaataacata tcatataagt tcctaggtgt caggtcaatc 420  
 ctattgatat caataaaaat aatttaatac tgctattggg tgtctagcac tcag 474

<210> 30537  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30537

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gaaaccaacg cacacacccc accaaagaaa cccaccccca caaaggngga ccgggagggga 180
gngaagaaca ccaaccgcg gnnccggggag cagaangacc accacagagc acgagaagng 240
agacnctacn ggggccccca ccccgcgag aagaccccg gaaacaacgc ggaaacaagc 300
aagngcccgg aaccaaccgc cccaaagcgg agaccataac cccgccggcc gaaccggaga 360
cggcaaacac acagccaacg gaaaggaggg accaaanaca cccgcacca ggaaggacg 420
cgcacgggac accgacccca aaaaagacg 449
  
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<210> 30538  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30538

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gtctctaaat caatttagcc actagtaa atcgattacat ctctggtaaa tcgattacaa 180
gcggtattctc tcatagttaa cgcttccaga atttcttcaa ctaaaaccaa agtataggga 240
tctgagggct acaatantgg atttgggtcat ccgtgtacac ctaactgaag tggttgaaga 300
atatagcccc tctaaggtaa cccccactat gttgcattgg acttatgctc ttcttgtgcg 360
tgtttataga agaaaaactt atttatattg tatecttgcc aagtgataac atttctttaa 420
accatcctg ctactttctt aatgttcaga agcttatect cagcagagat tgatctttaa 480
ccatctgaac g 491
  
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<210> 30539  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<400> 30539

agctcctttc ctttttccac tcaggtgtcc aagtgtggga tggcataggg tggaatggtg 60  
gacagcctca gtaactgcta ccatatcctc atctggcatc atgtaaagag atcctcgctt 120  
ctttccacga gccacaat 138

<210> 30540  
<211> 240  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30540

aagattaact tcattcatta tatgatgaat tttaacgggac gtttaatatc catcctcatt 60  
ggagcacaag ttgcacataa acaatggctg agaacatgag acatanatgt tannggtttt 120  
agaaggaaat cctgtcatca nttccaagtt attgatattt taagttcttt attttanaat 180  
tactctattt tataaatttt aagctaatta gaattgtata tatatgtgga caatacatc 240

<210> 30541  
<211> 188  
<212> DNA  
<213> Glycine max  
<400> 30541

tgtgaaactc tgtctgtcac atcattactt aatggacaaa tactaatggc aggtaccaaa 60  
gccaaaaaat gagaaacgcc caatagagca ataaaataaa aaattaatat gtagcaatct 120  
gaataagggg tatatcttag gtaagaaaaa gatatttaaa ccaattattt tatgaatata 180  
atcttaca 188

<210> 30542  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30542

gccttaaaaa ggggtgnttt gcaccttctc gctattccta tattctggct tagcgagcgt 60  
ccgctaagcg caccactcat gggctaagcg cgaggaaaac actagaaaaa gatgagttgg 120  
acaggttctt tagcgaccg cttatctact agtgccact tcgtcatctg taacgagaaa 180



gctgcgtaaa gctgaatcga tttagaagaa gttgactaag atcagagctt tgctgttaga 240  
 ttttaaagag acaagtcaag ttcaagagtt tgaagatttt gtgctgaaat tgcggaccaa 300  
 ctgaacagag ccgttgngct gaatgattgg aggatggaat cctaaggagg tcatctacac 360  
 tgattntgat ctcatt 376

<210> 30543  
 <211> 110  
 <212> DNA  
 <213> Glycine max

<400> 30543

tgtctgccgg gcagacaacc acaaatcatg tttacaaatc attatgaatt atggcattcc 60  
 tcgaaagtag ccgtatgatg cgtaccacca agcgtcatag gcactatacc 110

<210> 30544  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30544

agcnttaacc aagangggat ggtccatttc aagtacttga aaagataaat gacaatgcga 60  
 acaagattgg attgcctagt gagtataatg tgagtactac atctaattgtg ttgacttaa 120  
 ctctttttga tgtagatgga gaagccgatt tgagaacaaa tccttttgaa gagggagaga 180  
 gtgata 186

<210> 30545  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30545

nggcgattca gttgcaagtt ctacgnccac tatnaatact cagcctccat cattgagtta 60  
 agtcaccag gaggaatctg ttaacttggc ttgatcaaga ttaggctaaa ctatcatgag 120  
 gcaatcgggg ttaatatctt aggaaacaca ttaggacccc ttgaccttgg ttgaatgaaa 180  
 atatttttta acttcaggcc cctataagga agccacgtgt ttctcacatc attctctccg 240

tgattttctt ttgcacagat agttacacac ttgtcatatc atgctatctt acacaccgac 300  
cctattgctg aatagcttac caatacacia gtcctcagag ttcatactcg tcttaccgtt 360  
atctactttg cgaccgggca cttgcgagca acatagccat cagctgggta ataagaaaat 420  
gatttttacia attttgt 437

<210> 30546  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30546

agggcgcgca agcttttcatt ttcaatcngg agncgcncga ngggggcatg actcaatcgg 60  
acatcctttg ataatgttat tgtcgtttga atttgctacg agctatcgtg gtaattttaga 120  
gcatctagat atatttcggg acacaaacag acatcctggg ataaagacat tgtcgtttca 180  
atttggtcag agc 193

<210> 30547  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30547

attgttggtt ttttctttga tctacngnga cacnananan acncaagcgn ctagnctcaa 60  
tngggagagt ctcgaggatg accgtttata antctgcatc cgagnaaaaa ganagggggg 120  
cgngaataga cnaacagacc ccatactcaa cngggagcgn cncgaaaaaa aacgggacgc 180  
aaccggacga cccgggaana aaggggaccg gccccgcaan aggcgcacga gacacgcagg 240  
cggacacaaa caggaacagc ncgcggacag ggaagaccgg aacacggaac agaccacccg 300  
agacacaacg gcaaaggcgg aaggaaaaag gagacgaagg caccagccg gcaaagagcg 360  
gagcagaccc ggacangaaa acaggaccgc agaccggaca cgcagcgca aaaaggacag 420  
ggccaagcaa aganngcga ggagcaggag cagcgcgaa ccacgccgac gagggccnag 480  
acaaganggc aaggacgcaa gaccacccgg ccgaggacaa cagcgaacgc caccgcgcg 539

<210> 30548

<211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30548

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agctttgttc aaaaatcaaa agannnaact ctgcgagaag gttttcaagt tttgtaaaag 60
ttataactct ttccaatggt ttccattgac tagacatgaa gagtctataa aagcaagacc 120
ttgacttgca tttccataac tttttgactt aactttttta caattcttta taacaacttt 180
tgagaaacct ttgctaactt attattcttc ttcttctttc tttgcaaaaa gctttcttaa 240
agtatttggg tttccaaacc ttgaaaacaa aaatgtggta ttcattcttt tctttctctt 300
ct 302
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<210> 30549  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 30549

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cagcatcatc tatggcgctca gttatcttgt caacattggt gaggttgggga tcaaagtgca 60
cttttgtcta ctccaaagca agaacaacaa ttgctttttt cagcctact accaatttga 120
agggcattcc caacagagtc agaacagctt gtgcatgccca ttcttttaat cctcactcgg 180
cacactggta tgtcctgctt atgaagctca tttactcgaa acccactctg ctctatgctg 240
tcttttatgt gttgcaccta caaaaagaat atcaccaata ctttggtcag tgtaaattatt 300
gaagtacacc aaagacttat atctattagt taatatacat aattg 345
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<210> 30550  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 30550

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gaagcacccg acgacgcata cgacccggggg acaagacaca gaggactttt tcccacagggc 60
cgccgggggg gcaaacaacg ccacccggag ccacccaacg acggagccag aggaccgacg 120
agacaggcga gaccaccaca gacggacccc ccgaaggaca aaaaggggga cagaaccacc 180
gaagggcgca aacgaaccaa agaaaacaga ggcaaagcca aagccccgaa gaaggaacaa 240
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gaaaacagca acggaaagga gagacccccc acggccagaa aagcgccccc

290

<210> 30551

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30551

ggtaggncct gnangatcaa atgnaaacgg ggaaagagga agaaattctc tttccccgga 60  
aaagcgggggg tattaaactc tctctcccga tcctaacgta ggaataacat ggcgcccgtt 120  
cctcacagtt gattatctag gagaaaaaat ttgctttctt aaactagcta aatatttcag 180  
attccgaaga acatgcacat atctactaca tggttaacta attttattgt tatccgtaa 240  
tccacaaatg gaactctgcg tcgaagcttt ttggtgetat cagctcaata ggacataatc 300  
tca 303

<210> 30552

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30552

agggacgtct ctttgtanan caccggcaat ncagctcggc cccgggatcc tctagagcga 60  
cctgcggcat gcaagtcgtc catcataccc gaccncgca gggcgagga tgatganaca 120  
catcttccga ttcaattggt acatcagata acaatctatt tatatttaaa atcttgggtg 180  
tatatagtcc agaactttgc taacttccga tagcccgag tattagcata gattgagatt 240  
aagaattcgg agggatacgc tactgatcgt ttgatgatt gcactgaata tgtcgggcta 300  
cttggcctga cgcataatag gagccaaaaa agccgcgata ctctgcggca taagaaccct 360  
tctctttatt ggctccatt ccaccgaaca catggggaga tttccttcca tgtaaatact 420  
g 421

<210> 30553

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 30553

gcacnagng aaagtcccga nagatnntct nnnnntnaga nacnnaacnn cagagngaaa 60  
 caagatggaa gtggaaggac attaccttat ttgtccaacc acggacaaaa ccgagagggg 120  
 gcgcaactng gaancaacct atcaaacagc ncenganncc accaaacggt gttggatata 180  
 catactttat ctcaccctcg actccattta ggatggctga attattcagc gaacttgaat 240  
 attattcttc aacttcaccc tctgcataca tagcccccac ccttattcat gatgatgctc 300  
 acgactaaaa ccaagactac tatgtgccgt tatatgttaa tagagaacac aacgaccagg 360  
 acagttcctt cgtcgaatat ctctgttata tacgaataat gcgaccctga gcacaacccc 420  
 gaacttatat taggctcttc tgctgggtac ataaagagca aaaatgaata aacatattct 480  
 tatt 484

<210> 30554  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30554

aggagctatt cgtttgacac canccnnnt ggaaacacgc gccgagatcc ttagaggcac 60  
 cagcaagcng cagctttttt tcatggcctc cnanggcgga gagcgggggc tatactcatc 120  
 ttcagctcga agcggcgtct cctctgtctc tttcttctcc attctgcagc cgttcatctc 180  
 ccagaagcaa aggaatccat tgatgaaaaa gacccataggc ctacaagctc caatggagct 240  
 tacatcatgt ggcatcaaga tcatttttga ctacgtgatg ttcatttgcc tctccatcc 300  
 ttttgttccg tgcattctct ataacaacgt gagcttcac ttattctcca tgtatatcct 360  
 ccattgtcct gtgggcaagg agaaggttac aaaagactcc acaaagataa atcgattata 420  
 tctaaatcta cacttgtcta gcattac 447

<210> 30555  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30555

naatcttacg tcangngtan gtacnantnc nananttnag annacntcc ngcgcccaga 60  
gaaggagngc acggaggaaa ngcttanctt cnetanaata cngganagca annnncgaac 120  
gacgggcgct gttggccaac acannaaagc accacacgaa gggcagcncc acccaagaag 180  
gccnaacctc gccttganac gaaggacca ganngccctt nncacctacg aaanancaac 240  
tttttggtgg aagtgtgtga gggaacaacc tccccactga gtgtgatcca cgaggcgctcc 300  
caaccagaca tactgtaggg ggggggtaat atccatttat ttggaagggt aacttgacag 360  
ggtgtgaggg tctatctgta ccgggagatc gatcttcccc cttacctttt tngggggacc 420  
gtgcaaggca cgaccacca ttgacttcgg cttatgtggg aacattgaat ggaaattctc 480  
caagtgtctt tagcttacgt taccagaac catatcan 518

<210> 30556

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30556

catgattggt acatgatnta ggacttgtat gattcaatnt gngcaaaatt ggatgaagga 60  
aagagtgggt ntcgaaatct gcactttatg cagaattttg ctggttgaat gtgcagcaga 120  
attttgtata agtgcagaaa aatgcttgtg tatggatggt tgtgaaaagg gtagtacata 180  
tggggttctg gacattttct aacagatccc aacgggtcaaa atgtagactt atgtactaga 240  
gacttccagt aaaatttttg agtcgatcca acgggttaacg aactggaaca aagagaatgt 300  
tactggggta attgaatgtg anaagctgtg at 332

<210> 30557

<211> 353

<212> DNA

<213> Glycine max

<400> 30557

agcttgtcta ttataatta tattgagaac aactgaggag tgttgtgttt tgtacaattc 60  
atacataaag tatgtgttaa tagacttctt ggattgtgcc tgaatgaaga ggaaaatgcc 120  
ctgaccgact cttcagagtc tacgtcttgg ggataaatac acccggtttg agtacttctt 180

tatgcttgaa ccaatcccac atgattggag cattctactc aaacaacgtg accctaacta 240  
 gtctccctat gattttacct agtgagtgc ctaccctacc actgtgtgga ttgttatggc 300  
 atgcactcct tggcaccgca cgatgtcttt actaacatgg taccacattg cat 353

<210> 30558  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30558

tattggtggg tttttttcct ttacctgtgt ctcaaagctt ataaaagagc cttctagatc 60  
 tgttcttcaa ttgattntgt tcatcaaacc ttttttttcc tttttttgct ttttatcata 120  
 gtccaactcc ttcacaaaata tcaccactt tagcaccgac atctcattga attcccactg 180  
 ctgacctctc caacctcttg tgtcccttaa tggcatccgt attcactcct ccctcgaagt 240  
 ctcttgctct ttctcctttt ccatcattgg ttggatcttt catgaagcta gtgcgatgga 300  
 ttgnggaggg gaggagagtg tgatatagat gaccattgtc atatctaatt tggag 355

<210> 30559  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30559

ttattgatat cttntatagc gagcacggat tcttgatag acattaatgg ggatcaaagt 60  
 ttgaatacat ggagaaatat gcattcttgc ggtgaaacta ctccacacct atgtcacaaa 120  
 actttatctt atgagatcgc tctcctataa ctacgatgaa ggaatcaatg attattctca 180  
 tttgactttt atcgtaaggc ttaactttta tatatata 218

<210> 30560  
 <211> 130  
 <212> DNA  
 <213> Glycine max

<400> 30560

tgatcatcaa accaccttat cccttgaggt tcctcaaaat gtttatgtat atagtgtgtg 60

gaaggtcaaa tggaagggttc tccatcaagt gaaacaacac aaacttatgg aggtcagaaa 120  
atgttgatgt 130

<210> 30561  
<211> 187  
<212> DNA  
<213> Glycine max

<400> 30561  
taccacttgc acggtgctgg aactacttca catggacttg atggggccta tgcaagttga 60  
aagcctagga ggaaagacgt atgcctatgt tgttgcggat gaattctcca gatttacctg 120  
tgtcaactat atcagagata aatcatactc ctttgaagtt tcctggagct gatctacaac 180  
ttcatag 187

<210> 30562  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30562  
agctttaact ttatTTTTtca taagcacttt gtgcttgtac attccaccgc aacgcaccct 60  
tcttcaaaca ttcggtcata ggacttgcta tagagctaaa attctggata aagcgtcgat 120  
aaaatgatgc aagaccaatg aaagatctca cctccgaaac tgttgtacgg ctgggccaag 180  
tcttgatagc atccactttt gcntgatcaa cggatactcc atcttttagac accacatatn 240  
caagaaacac caccctttca accaagatat cacacttttc ctttctccca tagagttggt 300  
gtgctcttac ggtctcaaatt atttgtttca aatgagtgaa atgctcctct atagattngc 360  
tatacaccac tatgtcgtca aga 383

<210> 30563  
<211> 252  
<212> DNA  
<213> Glycine max

<400> 30563  
ttagatatat gtttatgata atacatgttt actctttttt tcttagcata taacgatact 60



caataagtga cggtgaagat gttatagtat agctctgata tgatattgca aattattcga 120  
 gtcgatgtat atatatatgg gttgtgtctt gtaaaccattg ctatgacatg ataatatgat 180  
 atatgacaat cagtgaagta aacagtgata tgtgagctat gaactgtgta gtcacattcc 240  
 ttggaaaatc tt 252

<210> 30564  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 30564

ttatcaagta acacaagttg agttttattc acaacattac agtatatctc tcttatctta 60  
 ctgagagtga ttctcctata ttcttgagtg attcaagaac accttggtg tatcaaagga 120  
 ctttcacaac tctttgtgtg tagtcctcgc tggaaagagt gattcattgc ttctttcat 180  
 catcaccact tgtctttcaa accacaat 208

<210> 30565  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 30565

ttgctagaga cagtgtcaat gctatgtata tggtttcttt ctttgtggca ccaaaggctt 60  
 actcatatca gtgagaatgg gctgaattgt ttagccaaga aggatatgct tctacgattg 120  
 aagaatgcaa atttagagaa atagtctcat tgcattggtg gtaagaaaac caaagtatcc 180  
 ttcaagaaga atcctccctc cagaaaatct gagttgcttg aatcggtgca ttcagatgta 240  
 tgtgaccctt tgaaggtgaa atcctttagt ggtgcacttt attcttgtag cttcattgat 300  
 gac 303

<210> 30566  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 30566

gacccgggat cttatgtcgc cgcagctggt atttacattg accctgcacg tgctggaact 60

ctttaatggc ttgatggcct atgcaattga agccttgagg aaagagttgc cttgttgtgc 120  
 ggatgattct ccaataacct ggtcaactta tctagaaaat cagacccttg aagtttcagg 180  
 actggtctaa acttcaagaa aaaaactgtg tcatcagaga tcatgagtgc catggctaga 240  
 gttgaaaaca caattactga atttgccatt gaagcatact catgagttct gcgtatacac 300  
 acacaaatgg ctattgaagg aaacagactt gcagagctgt aggcattgctt atgcaagact 360  
 tcctt 365

<210> 30567  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30567

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 gtaagcccaa gggcaaggga ggcttgngct ttaaagaatc cataaatntc aatttagcct 120  
 tcttgatgaa gagcgggtgg agcttatgtt cgaatangat gcgttgtggg tcagaataat 180  
 cagagaaaag tatcactgtg gagaatcttt gatcccagat attgattgta ataggtttga 240  
 gactaatttc tgggtggggcc tttgtaaaac ctggcctgag gtacagaaaa acctttgctg 300  
 aaatatttgg gatgggaaca atg 323

<210> 30568  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30568

gatgctcana aacatcaata tctatcactc catcagtagg tctgcccaga tatttggttaa 60  
 tcacagcatg ggagaattta acacactntc ctctgacaaa caccttntga tactcatcac 120  
 tttttctgtt agatatgtca gagggaatgt tgacaatgaa ttccctgact aagccttcat 180  
 agcaatctcc caacttgctg acagtcttca gcagtcagc agccttgatg aggtccatga 240  
 tctccttgca atccaatgca gctctttcca gttctctttc caaggccagt cttcgttgat 300  
 aca 303

<210> 30569  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 30569

tgtctcagtg gttatgcgag accgagacca acatgttagc tttatcagc aagtaccaag 60  
 aagaattaaa tctagccacg gcccacgagc acaaagtggc ggacgaatat gcccgagttt 120  
 ggttttttag gaaaaacgcc ataactaagc gcaccccaag gcataccttat cgcaccagat 180  
 ccaaacttag gacgatgggt gaccaagagg aagtacagga acagatgaaa gccgacatgt 240  
 cggcttatat agagcaaagt tttccatga tggatg 276

<210> 30570  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30570

aaaaanncga cccggctcctt aagtgacgcg gctgcacttt attctctctg aagactgata 60  
 ctgcttttaa gcatatatat actccaatgg tccatcgctt actgctaaat gtcaaaaaga 120  
 ggcaaccttt aaattaccca cggggaagat ttggggccaa tagctcctcc tggatgaagaa 180  
 atgatcccat gatgaacact tgcaggtctc ttgaaacata gtattgcgcc actccgcctt 240  
 gttgcggaaa ataggagggtg aaaagaatca tacttctcca ggcatgccaa atcggcacag 300  
 gcaaagaga 309

<210> 30571  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 30571

ttacgtgtat gattctcttc atagagtttg gccctcgaaa ttgttatgag gaggcctgta 60  
 tatattaatt gatgcttagt taattaagac tatatcgaat agttgttacc gtgataatat 120  
 cattgcataa ttttgatttc tattcttcca atacaaaatg gaaggttgag catggattat 180  
 tttaaaacat tgtcaagtag gattgcagca atctcaatta tattattgtc atatgaaaag 240

acattgagac atgggaaaaa ttttatgc

268

<210> 30572  
<211> 335  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30572

aacctgtact gtgagagcaa gcgcgagagc tcgacgacaa ccatgactac acggtgtaaa 60  
cttgaaggga gggggcagtg ccatgtggcg accggtatgc gaaaagtga gtggaggtct 120  
caagatgaaa gaaagtggaa actaagtggg gcggaagtta actanacgca atacaatatt 180  
taaactacac atataatagt aactttttta tgaaaaaata ttatntaggg tatttgctta 240  
atctacttta tcgtgaaaga aagtatgcaa catattatca aagttttaat ctagtgccgt 300  
aaaatactta ggcttttcta aacactataa aaaac 335

<210> 30573  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<400> 30573

atgggtaccc atcagatgtg gtactaggtg gttgtttgtc gatggtgcaa aacaattctc 60  
cacatgcaca aatcacgtat aaaccaccca tcccctgttg cccacctcaa ctgagctcat 120  
gtactccac gtagccctta tctcgttcc tctcaacgcc gggcccccat caatcctccc 180  
aagcttcac aacatccaag taattcaaca tccaagcctc atgaactaac acagccaaga 240  
aaatagggca gaggcagaaa actctgcccc aaacacaaac cgacatcaca gcttttcaca 300  
ctcaaatact ccagtaatat tctcttcggt ccaattcggt aaccgttgga tcgactctaa 360  
aattttactg gaagtctcta gcacataaaa ctacattat 399

<210> 30574  
<211> 296  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30574

tgggtgcacaa cacgttttcc acatccacaa atcgcgcata aaccacccat ccccttgttc 60  
 ccacctgcaa ctgagctcac gtactccac gtagccata tcctcgtttc tctcaacacc 120  
 gggcccccat caatcctccc aatctttccc caacatccaa gtgactcaac attcaaacaa 180  
 cacataccat cacagccaag aaaacanggg aaaggcagat aattctgccc aaacaccaac 240  
 caaaatcaca gcttatctca cttaaaggcc tcagtaacaa ntccttcgt ccaatt 296

<210> 30575  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30575

cctccacggg gtataatgat atcagcgtac ttcttggtgg gaagaataaa gtcatcanaa 60  
 gctggcttca caaatntaga atactgcac aagtatatat tataagagac agttactaat 120  
 atacgggtaa caaaaaagg gaattactaa tattggtaga cataaaaaaa acgaaatatg 180  
 ttagcttgat ttataatcat aacctcaaaa cagatcattg aagatntaat ntcatanaga 240  
 ctgacttctt tacatgtttc taatcaatga aagttcataa cagcctctca gcaacatgaa 300  
 ctataacaac atttccaagt cttgaaatgc agtacatg 338

<210> 30576  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30576

gcattcaccc ctccncatt ntcttgacaa accataaata attnttttat agtcgtaacc 60  
 ttattgtatt gcaacttaac agcacacaac aatcacttga taaataagtg gcttcagctc 120  
 ctatntotta gttttntaa ttaccataac ccacagttga caataatgct aaagcacaat 180  
 accata 186

<210> 30577  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30577

caaaaacggg tggtaaagacg tcngcacagc acatcnggga attnagctcg gacccgggat 60  
cctctgagtc gacctgcggc atgcaagctt tattgtctga taacgacaaa gactacactt 120  
catcataatt caccatgttt tgtgaggaag cangcattga gcatcaatta acaactcctt 180  
acacccctca acaaaatggg gttagtgaag gaaaaaattg aaagataatg gaaatggtca 240  
gatgtatgct tcatgagaaa gggttaccta acgaatatta ngcagaagct gcgaacactg 300  
cagtattctt gctaaatcga cttcccacca aagcagtaaa tatgaagact ccttttaaga 360  
cttgggatgg ttataaacct tctttgaana atttaaagta tttgggatgct tgtgttttac 420  
ttatgtgcca cagattaaga gagacaagct agacaagaaa gctgaacatg gtatctttgt 480  
gggatatagt tcagtatcta aagcttatag aagtttccaa cn 522

<210> 30578  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30578

ccttcctggc ttgttgtgtt cataatagga ttccttctct tgatgggtgc ttttgtaag 60  
gacatagact ttcagagttt ctttgcctaa ggatgtgtga tgcttcacat ttccattgca 120  
gtgtggagat tcttctttga gaggaagctt gnggatcttg cacatgaatg gcctangcat 180  
gttgttgggg acatagcatt ggcaatatca tgggtctttt ttcttgtgta cacatggaga 240  
gagaaatatg attagttaat ntactttata attgtgtaag ttttttgtgc ttgtgggtgt 300  
agaaacaaca t 311

<210> 30579  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30579

tagctttgat gtgtgcgtac ccaccatctt ttcatagtag agtatcgata atgtgtctac 60

catcacgatt atcgtctccc tttccatcat tgggggtacc acttgggccg ccagatccgt 120  
ccaccttttg ggcgtgttct ttgaaagatc cgtccccctt tgtgcacatg ttctgtagtt 180  
gcatcatatc cggaaccata tcacaattgt actgatactg gctaacaaag gcaaccatta 240  
agtccttcca agactggact cgggaaggat ccaagtttagc gtaccangta acagctaccc 300  
cagtaagact ttcttgaag gaatgtatca gacattcctc atcttttgcg tattcccgca 360  
tcttctgaca ataatctttt agatgggtc 389

<210> 30580  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30580

agcacggctg ggnnacatga tatatgtcan gggtttgggt ttattttaaa gggaataaaa 60  
nggggaattg tatcatgaga aatgtctgcg gggggtnttg aacccatnng cgggcgccga 120  
agttgacagc gtgggcattc tccctcctta cnntctttgc accagttgct tccaattctt 180  
tttagcattt tggcacttgt ggagggaaaa cgtaatcgaa cttccctctt ttcaaccata 240  
cttcaattct ttctcggcg aataacttggc ccgcgaagct ggacggcatg taacctacca 300  
acttttcata gtaaaacact ggcaagggtgt ctaccatcat cgtgatcatc tccctttcga 360  
ccatgggagg ggccacttgt gctaccaggc cactccatcg ctgtgcgtat tcttt 415

<210> 30581  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30581

gatattaaaa attgactata atcagttgag tggcagtaca ncgaaattat acaccaatta 60  
ttacaagcca aagtctctga acattttttg ttgcttcttt ttcattcattt catgatattg 120  
gatcaaaatg gtccccact tcaatatttt caattcgaga ttgactcttc tcatttatag 180  
caaaagatcc aacatgacac ttttgctttc acgtacgaaa agcgaaatgc tgatggcctc 240  
tatcataaat acacactact ctatacaaac aatgtgtaaa acttcacctt agattttcat 300

gtaactatgc caaaatattg caccgcgcaa aaacttataa cgtttccatt tcataacata 360  
 tgtcaggact accgagacca tcatacaact tctattttcc acaaatgcaa tattga 416

<210> 30582  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30582

ntattcaaga caaagcaatt aaagatattc aagatggatg atctagacaa tctctagagt 60  
 cttagaaagg gtatattaaa taggaaggga attccaattg aagtagcaaa ttgggcctgc 120  
 ataacatatt attatgtaac atttagtgca tgtcaacatt ntcaagtgtt aataacagaa 180  
 aattaaatac aactccctgt taagtcgact taccaaaatg tcatcccata ctangtcctt 240  
 tagagattct gacacatctt ttcaatttct atgtagcata ggaatctttt ctcgaactac 300  
 gacccccaaa tagttgtgga acttttattt tt 332

<210> 30583  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30583

tatcttgtat gtcttggatc ttcttcatca atgaattcct ttgcttcttg aggtttgatt 60  
 gcagcgaagt ggagaaggag aaagatgaat ggagatgcca cttcaagtag aagatgagtc 120  
 tagaagaagt tcaccaccat aggaagccat ggataagagc ttgaaggtag aagaagatga 180  
 atgaaggag aggaagagaa gagcatgaaa tttagtgcct cttaagaaga ctgaactttg 240  
 aagtttaatt ctcatatgat caaagttgaa aaaatgcaca cacaagacct ctatttatag 300  
 cctaagtgtc acacaaaatt ggaggggaaat ttgaatttct attcanattt cactcgaatn 360  
 tgtggagcca anatatcact aattatgatt ag 392

<210> 30584  
 <211> 417  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 30584

tcatgatgaa tcaagagtga ttcanagatg ttttgatgat atctaagatg ataacaaaag 60  
atgatgacaa aggtgatgac aaaaagctca aaggtcaatt aaagaatgag ttcaagatat 120  
tcaagataga atcaagaaca cttcaagatt caagaggaaa gttgatttca agaatcaaga 180  
gatcaagatt tcaagaatca agattttaagt gatcaagatt caagactcaa gattcaagaa 240  
tcaagagaag acttactcaa gataagtatg aaaagggttt tctcaaaaat tgagtagcac 300  
atgcattttt ctcaaaacat gtttaccaaa gagttttact ctctggtaat cgattactag 360  
attgttgtat ccgataccag tagcaaaatg gttttgaaaa aaaaatcaaa tgaatta 417

<210> 30585  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30585

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tatgactgga tgaatcttgt aatatttggg ttaacaacat taaaattctg acacagaaat 120  
acacaaattg agaaatgaga tgattatgca ggaaggcaaa acttttttcc caataataat 180  
aaagaaattc atattcacia tagaagctta aaaaatatct taagtagggg aaaaaatnta 240  
ctcatgttca caatactttc aatagagtta aacatctagc atatgataga agctcatttg 300  
ctattgctag gaaaaggctt atctcattat ggcgaggcaa caagctccag gaataataaga 360  
aaaggaaata aactctcacc agtttttagct tacatanngg gaacataaaa gcttacat 418

<210> 30586  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30586

gcttgtacaa gcacataaag ganaaggga actgatgaat gtgtttacac atcctttgca 60  
caaaagatta ataggcctaa ctatctaaaa acagtcccca gtggagttgc caattgtcac 120  
aacctaccct ttggcgggtg atgtaagctc cattggagct tgtaggccta ggatcttctt 180

cattaatgga ttccttcgct tcttgaaga tgaatggcag cgaaatggag aaggaataga 240  
gagaggagat gccacttcac tgaaaagatg agtctacaag aacctcacca ccatangagg 300  
caatgga 307

<210> 30587  
<211> 384  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30587

tttagatcag aacttctaaa tttagggctt ttggaatccg gacgcgaaca caaatatatg 60  
caagtaacca tagatattta agaataatat ttgttaaaat acattntctt aatcgataat 120  
aaataaataa ataatatatt taacatatat ttatatTTaa aatgaataat ttgaaaatat 180  
atatattcat actaaaaatt aattaaacca acttatttat atataattag agacatttgt 240  
ttatgcaggT atccgttaaa ctgttcaaT ccaatataaa caggatntat ccattntact 300  
caaccaacat gcacccTagt tctggTcatg cagcggtttg cctgagtcca gtctaaaaca 360  
aaagtcatgt gattnttcat ttat 384

<210> 30588  
<211> 438  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30588

ttgcacatta nactccacat ttatctctat agaaaaaaat atattaatac ggaaccctag 60  
ctacttttta aaagacgcaa caagggaatg tttntctctt ctgttcttta caaatagcta 120  
ggataatgat ttttgtacaa ttattctgtg tataacagtt ctttgattt ttgtgaaata 180  
tttttttgat atacatgttt atgaaaaaat aaaatttaag tgagaaataa aaaaaaaatc 240  
atatatgata atgagatagg atcgaagtnt anaatttgat gaaaccttaa ccgcagtgtt 300  
agtagtaaaa agaatcttta cacatgcaac aaanagtcgc taactgctaa taaatatatc 360  
gatggtgaca agacatagag tacangcttt ggggttgTta gttaaaacat gcttcacatg 420  
acgtagtaat tacaaaaa 438

<210> 30589  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30589

caagctgngg tctanntcta aggattgagc atggcatagg aagggttag tatgttgaat 60  
 ggtangaaaa tttgataatg atcacctcca cagactctnt gacgctcaac tttggaataa 120  
 gagaaataaa ataaaaagtg aagattaaga agttcatata taaagggtaa tacatctcta 180  
 tatagtgatg attttggcgg aaaaaatatt atgtactctg agagcatgtg acctacgaag 240  
 cttattaata aggaggaaat ccatgcaatc tttgtgatat agagtagaaa gtacatttaa 300  
 gaatgtgttg ctgaacttgc tcataattga atgtagagtt aacaattcag gtgacaagta 360  
 taccaagtaa tgacattatc tatctggatt ctggagaatg aatatgagca tg 412

<210> 30590  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30590

tagganaatg atcttagagg atttatatat gagcaacttg tgtactccac cctgggctgc 60  
 caagatgtat caggatctca cgacaatggt ttggtgacca aacatgaaga gagaggctag 120  
 tgagtttgtg tatgtgtgta tagtatgtca gatcgctaac atagaacatc tgagaccctc 180  
 atgtaagttg caacactttg agatacccag aggaagtgga atatttttca ttgatttcat 240  
 tgttgactac ctaggacccc caaggtttcg atctatcta 279

<210> 30591  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30591

acttccctca cgtactgtct cgtgggggggt atgaactgct tgacaagaaa cttatggagg 60

agaagagcaa gcgtggacat gaggaacatt cgtgtactga aagcccaaca ctcaacgtcg 120  
 acccaccatc cccagttgca agacacttga agtggagat cgccccgact aagcggcatg 180  
 gccaaatgac gtctgaagtg gcacaagaaa ttgtagacan aatggtcagg tcatatattt 240  
 ttttggttac tgtcattggc anataatgg 270

<210> 30592  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30592

gcttgtgatt atcatgtaga ggattcatca naaggagttg accacgaaca aactataag 60  
 attcattcaa ccccatgaga aattgcatca acttgcgctt tttgttgttt gcttcacatg 120  
 tgcaaatagc atcattatag gatcctaact catcccacaa ttttttttta actttgtata 180  
 gtatgcagca actatcattt gatcttaagt aaggcaagca atctctctct cgatctggaa 240  
 aatgagtggg gcgttgcttt gaaagaaaca attttgaaga ttttcccaa cttcatgagc 300  
 agtgtaaana aaaataacac tatctgtaat atcaggggtc attgaattaa gaatcccatg 360  
 acaaaccata tcattgcatt nttcatgcta catagtcttc t 401

<210> 30593  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <400> 30593

tgatgggtac catgagggtt ttttgtgttt gaccacgcg ggtgttgaag agacggcatg 60  
 ggcattctct tcttctctt ttgcccctgt tgccccgatt cttttggcgt tcacgtttgt 120  
 ggaggaaacg taatcaaact ttctctctt caatccaacc tcgattcttt ccccgga 180  
 caccagatcc gcgaaactgg acggcatgta acccagtatc ttctcatagt aaaacactgg 240  
 cagagtgtct accatcatgg tgaacatctc tctctcaacc atggaggagc tacctgtgcc 300  
 gccaatccct ccacgctgc gcatattctt t 331

<210> 30594  
 <211> 426

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30594

agcttgtcac ttgtcagccg aatggagact tctgactaac gatccttaga tgacaaggta 60  
ctaccacatg gctacttggc ttanagaatt ctctgccaat tttgagctca gacacattat 120  
aagagaaaac aatgagagcc aacttgttgt taaaactcgc cagtacaaag aagaaagggt 180  
aatacataat agttatcaag gaaacaatct tggaactagg cttggacaag gtggttagcga 240  
gtgtaactct catttattga gcgtggataa ttgagattta cgacttcttg gaaataactc 300  
actctcgaat aatctagtag cgacaagaaa gattaagaga aatgccagtt attatgtgat 360  
agcgggagga tacctataca aaagacgctn tacaacctct ctgttgaaat gctaagtcgg 420  
gatcat 426

<210> 30595  
<211> 213  
<212> DNA  
<213> Glycine max

<400> 30595

ttaccatcta tcccagccct ctccaagaat aacttgtcat gtaaagaaag cggtcctata 60  
caccaaagt ttgttaccac tctctcagac cctattacat acatcttata cgactgctga 120  
aaagtgatca ccaatatccc tgcattgaaa tttccccagc tttgaattgt tcaacggagt 180  
gcatccaaac ctgtcagtcc tgactcattg ccc 213

<210> 30596  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30596

agaacgaagg ggggtggaac gtacgcagca tgcgncata nagnncgncc ngggatnntt 60  
nagtcacctg cggcatgcaa gctttcttta ttgcgtcacg tntannaccg agctcgatgg 120  
tggtgcgagc ctttgatggt actcngcggg aagtgatggg ggaaatcgat attcccattc 180  
agatacgccc ccacacttgc catgtggtgt ttcaagtaat ggatataaat tccgcctata 240

agctgctctt gagaagacct tggattcatg cnctgngagt ggtcccttca acgctttacc 300  
 agaaattaaa gttcgtagtg ggtggacttt tagtgatagt gtcnggtgaa gacgatatgt 360  
 tagtgagctt ccactcctcc tcaccgtaca tagacgtggc ggagaaatca ttgaaccggc 420  
 ttcttatact ttgnggggtg agctgtgcct cngtgggaacc agtccgtcct acctttctct 480  
 ccacgccgca taatggtgca ccg 503

<210> 30597  
 <211> 136  
 <212> DNA  
 <213> Glycine max

<400> 30597

aaaagctgca tctacagcgt agaagtcacc tgcagttatg ttagctagca catccatttc 60  
 tagtctgtat cttgttggtc atcaactagc atgcagtcct gaaatattat agaaatgaca 120  
 tatcttatgg aagaaa 136

<210> 30598  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30598

gcttccttgg gaattaanat gattaaagct tccttaagaa gctagagggg gactactcat 60  
 atccctccaa tagctaagtt cacacctatg ccaaaataca tgaaaataca atgggaagca 120  
 aggaaggtag cttccttggg aagcaaggaa gaaagcttcc ttgagaagct agaggggggg 180  
 cggtggctac tcacaccgc tcaatagtta tgctacccc catgccaaaa tacatgataa 240  
 tacaanaaaa taaaagtccc tactacaaag actactcaaa atgccctaaa atataaggct 300  
 aaaaccctat actact 316

<210> 30599  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30599

aagcgtttca taccanngt tgcacnnncn nnnannaaga ancngggatc cttanagtcg 60  
agctgatagc tgcagcttgt atttgttttc ttttaatgtg actatgaggc aggcgcgtct 120  
ttgagaacca atccatcgac ctctccatct caaaactcaa taagatataa gctccacaca 180  
tctcagctca aaccaataa atggagctag tatgatagat agaacggctt gctataaact 240  
gcttgccaca caagtaatcg acattataga tgggaaatct gtgacaactt ctttctgtca 300  
gagcaattgg agaccactta attgaaccca ctgtatgcta tcgccactac attaaactttt 360  
ttctaaggat caagtatagg tataaatata tatgtattaa ctttatgata actaagtttc 420  
atccacacaa ccagcttggc caacctttag tgaaaatatc cttctcaact atgtatttta 480  
tatctatata accaaaccac aag 503

<210> 30600  
<211> 379  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30600

cactatanaa atactcccaa gcttgtaggg attanntggg gtacccatca caatgtggta 60  
ctagtgtggc ctgtcgggag aatgggtgcaa aacgattctc cacatccata aatcacgtac 120  
aaaccaccca tcccctgttg cccacctcca attgagctca cgtactccca cgtagccctt 180  
atcctcgttc atctcaacgc cgagtcccca tcaatcctcc caagctccca caacatccaa 240  
ttaattccac atccaatcat catggactaa caaaaccaag caaaacaagg caaaggcaga 300  
aaactctgcc caaaacacaa ccanaatca cagcttttca catacaaata cccagtaac 360  
atttccttcg ttcgaattc 379

<210> 30601  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30601

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cagcattacc agctgcaata gctccaacga ctggatcaag tgacaacact ggaaagatag 120

acagagaatg taatatagat nttgcagaga ttggaggaaa gaaaaagggtg agatgtcagc 180  
tcaaaagtat gtgacacaat accaactaca tattaacata cagaatgggt agttccatgc 240  
agagatgact aacacaaccc ccagtgggtc agatactatt tcagctgaag atggaaatag 300  
tgcgattgaa gtcttgacct gcaataaaag ggaaattcat gtgataaatc ataagtacca 360  
aacaatgtca gcaatgaaat tcacataatg tatanccctt caggagtca 409

<210> 30602  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 30602

caacatatat atgttcatcc attctaagct atcctttttt ttttacatat gttgtaccag 60  
gcctcccatc cctctaaaag tgaccctaatt tctcatttta atactaatgt tgccccataa 120  
ggaaatgcca aatatgtttc ccagagataa aagaaacatg tctctcaaag ttctttgtat 180  
ttctatatat ggccatattc tctaaatata ttaatagatt atttactgag agaactcaag 240  
attcctagtt taaaaaagaa gtcacaccat tagccctctg ttttattctt ctctatgatg 300  
tcgtttgat tcttctct 318

<210> 30603  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30603

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ttatatcgag atgctcgtaa ttgaaaatag aagctctgag caaattcaaa cgacaataac 120  
ttttgactcg ggtgtccgat tgtgtcccg agtatatcga gacgctcgaa attgaaaaca 180  
gaagcactga gcaaattcaa acgacaataa ctttttactc ggatgaccga ttgagtcccg 240  
taatatatcg agacgctcgt aattgaaaac agaagctctg agcaaattca aacgacaata 300  
acttttgact cggatgtccg attgagtccc gtaatatatc gagacgctcg caattgtaaa 360  
cagaagctct gagcaaattc acacgacaat tactttctac tcggatgtcc gattgagtc 419



<210> 30604  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 30604

gacacataga aactcaagct gttcttgatt tttctaagtt ctttaacaag cttagatcaa 60  
 tataacttgtc cttcatttaa ttgtctttgg gcttggcggc ctgatcaac aaagtacttt 120  
 cggcacctac tataatggtga cttgaccaac gctcttatcg gtatgctgcg acaatccttc 180  
 aacaccttat tcacacattc tgagaggttg gttgtcatgt gaccatatct tcgtccagat 240  
 gtatcataag ccatggctcc attttccttt gaaatgcgat caatccatgt cgctatggct 300  
 ggactcaatt gacaaaattt ttctaagttt tgatcaaaca catgcttgca aagagtgtac 360  
 gctacatcac aattgttacc atcaaaagtt gaggtagata tgaaactcaa ataacttca 419

<210> 30605  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 30605

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 aaaatttctca catcacacta aaaatcaaat ttgcatcctt ataaaatatg atttctatcc 120  
 ttataagtgg actcacacct ttgttggtta tctcactc taaatatgta tatgtattgg 180  
 ttctgtcatc aacaataacc ctttgcaatg tcaagtaaga ttgtttctac taaaaaata 240  
 tgtgatatgt ggcatagtaa taaaacatat tgattaatga agatcattat aaatttagta 300  
 taaactgata ctggaaatga ttacaagcgt gggaagagaa aaagagtgat gaggtagtgc 360  
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 cat 423

<210> 30606  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30606

tatcctctac gacaatcaac tcggcggcaa aattcccggc tctatcgga accttaagag 60  
ccttcaagtg ataagagcag gtggaaacaa gaacctggaa ggccttttac cacaagaaat 120  
tggcaattgt tccagtttgg tcatgttggg tcttgctgaa actagccttt caggttctct 180  
acctccaact cttggcctct tgaaaaacct tgaaaccatt gccatttaca cttccctact 240  
ctcaggtgaa ataccacctg aacttgngta ctgcacaagg cttccaaaca tatatcttta 300  
cgagaactcc ctactggat ccataccaag caagttggg 339

<210> 30607  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30607

agcttgaact tgctgtatct tctacttttc tagtgatttc atatgagaca ttgtgttcat 60  
tctgttttat ctgaatataa tttagtatat acacaaatat tgattttgat atgctaata 120  
gatatgctat ttgcatatct agaatccata tggcagtttc cttgacgagg actataactg 180  
aaagccaaaa cgtgtttccc atgtctatct gtcttgcaag gcggatttct gatcatggag 240  
cttcaagggt agggatactg cttcttaaac gttgattcaa ttattattcc ttactccttg 300  
gtgtaaaata ccttatatcn taataaattt tatgctggtt tatactttat gtnttaactt 360  
gtcaaaacaa aagcaaaccg ccatgtatcg aattggctcg gatttcatct tccgaaactc 420  
ccct 424

<210> 30608  
<211> 502  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30608

ggggnnnnnn nnnnttggga cagtcagact cngcaatcac tcgaccgggg tctctgagtc 60  
acctgaggca tgcaagctct ntgtataatc tttcttgga agctagagct agctacacac 120  
acctctctaa taactaagct cacctncttg agaagcntnc ttgagaagat tcctagagaa 180  
gctagagctt aactacacac acctctctaa tagctaagct cacctncttg acatgagaag 240

ctagagctta gctacatacc cncctataata actaagtnta accccatgcc aaaatacatg 300  
 anaatataa aaaagtccct nactacaaga ctactcanaa tggcctgaaa tacaagacta 360  
 anaccctata ctactagaan tggcaaaaata cannggccan aaaanggana acctattcta 420  
 tatttataaa gngagtgacc caaccttgct catgggctag aatctacctg tgtcatgaga 480  
 cccagggcct cttagcactc tn 502

<210> 30609  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30609

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 aaacctttct taagttttaa atcctgcgac tacgcgctaa gcgcgtaagc tagctaagcg 120  
 acccatgtgc gctaagcacc ttttcacttg actgcaggtg ctctatgctg cttcttcgcc 180  
 ctgagcggac accctcccac taagcaacaa tagctcgcta agcaagtcgc acgcactaaa 240  
 caciaaccat catgcttcaa cttctctctt tateccttgc ttggatatct acaaaataaa 300  
 atcatcaaac agtttgaatt aacgatttaa ggtacctact gcgcaaatac ttcgaggata 360  
 ttaaaattat aatgattcac acaaaaa 387

<210> 30610  
 <211> 154  
 <212> DNA  
 <213> Glycine max

<400> 30610

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 ctatgttcag attgggaatg cctctagcag cacctttgtc gatgattttc ttcatgcctc 120  
 ttaagtgcag atgtgcaa atttgatgcc atat 154

<210> 30611  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30611

catgtntgtc atcatcaaaa atgCGGagaa tgtgaatgta ttttgatgat gtcaaaagaa 60  
gaatcaaacc aggctcattn tgcttcaa atacaaga ttgttcaaca aacanagcct 120  
tgattcaaga tttcttcaag atcaagtcgc gcctcacaat gaaaggggtc aagtcattca 180  
aggcacatgt aatcgattac caatggtttg aaagtgtgtg atcnattaca catcatantg 240  
tategactac tacagactct gaatgtggga attcannatt taatgaaggg cataactgtt 300  
cangaaaata actgtcgtat tattacacta anntctgtat cgatttcaga gaggatntca 360  
cggatategc cacagcacat ctatcattcg attttgag 398

<210> 30612  
<211> 242  
<212> DNA  
<213> Glycine max

<400> 30612  
atgacttgat attgactttt cgggaatgca cagacatctc acattcatca aactgggtcca 60  
gtgaaggatg tttgggaaca gttgccggtc tctcataatg agccgatgat gttcatcatc 120  
ttggctgacc ggttgcgcac tgctggggat aatgtgaaaa ttaccacccc ttgtctaagt 180  
ccactctttg tcaccggcta atgggttatac atggacattt tcttgcccac tttgacagtc 240  
tc 242

<210> 30613  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 30613  
tatgcagtta ttcccccaa ccacaagaaa gcaaaaccct taaattccat acgaatcaaa 60  
atcctcaaca gagtttataa atccgaaacg aatagaagaa attggaatta aaagaaaaaa 120  
acaaattata aaaagaagaa caaactaact aattggatcg tgggtggaac ggtgtgtgat 180  
gCGGctgatt attttcgac ctcgtgtccg tgcttcagag agaacacaga agaaatgatt 240  
t 241

<210> 30614  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 30614

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 tgtttaataa gacattctag ttaatttctt atttttatta ggtgaaaaac tcaattgtgc 120  
 aataaacaag ttcttataat acctactaat gcttgatatt ctttttaatg atacatTTTT 180  
 taagtacttt aacatctaata tttacttaac aattctaata taactaatta gtctttaact 240  
 gcttactatc aattagttgt ttttaacttct acctaaacttt gtaacttcta gctaagtgtg 300  
 caaacgtaat gataatcacc aatttggtat tctcttact 339

<210> 30615  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30615

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 acctgcggn tgcagctttc ttgtttgtcc atcnnggaca attaactgta aagtgggccc 120  
 aattggattc taatttcaac ttacctatnt ggaagtgaca tcatggcagt taggtcccag 180  
 ctntccattg tggattcagt cacanaacca acttcaatat gtnggactat ctaacacggn 240  
 gatnttcgat tctattccca cacacgatgt gggaagcacc ttctcanggt ttgtatntaa 300  
 acctctctcn taatcatatc catggtgaga tngnactaca ttaangaatc aatatctatc 360  
 caaatattga tctaagctag atcactcgtg tggttaattac cctatctttc acgtgatgtg 420  
 ctcnngtaga tctntcangc attcattctc tgatccatga atgacttnta tgtacnatca 480  
 ngacanca 488

<210> 30616  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30616

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 gggatctact acgctttag aactatggat gctgttcaag caaattacac tatcttagag 120  
 aaggagctat tatcgatagc ttttgctctt gagaaattac gttcatatct gcttggtact 180  
 cgtgttattg ttataactga ccattgcact ctgaagtacc tgttgaagaa cgctgaatca 240  
 aagcctaaat tgatcaggtg gatgctttgg atccaagagt ttgatttgga gatccgtgat 300  
 cagatgggta ccacaaactc ttgggtgac cacctgagta tgattgagcg tgcgcctgat 360  
 gactcaccca ttcgggatga attttcacat gaccatttgt acattttgta taagatctct 420  
 gattccgtcc ccaactccatg gtttgcttat attgcaatta tatggctgct catgttttcc 480  
 tccctcn 487

<210> 30617  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 30617  
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 tgttttgtgc tagcaaaact atgggacctg ctttgtggta ctactctggt gtgaaatagc 120  
 gatttcacat tactgatatt gaatttggct cattttttat agacgatcgt cagaactctc 180  
 atccttggtc tcctctatct ccctcgaagt atgactctaa tcttgagtct tttcttttgg 240  
 tataaaactaa tcttgagtct gaatgggtgg ttaagtaaatt ttctaattga aatgatactc 300  
 taatctaaaa tt 312

<210> 30618  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30618

aatcacatgt ntgtcatcat caaaaatggg gagaatgtga atgtattttg atgatgtcaa 60  
 aagaagaatc aaacaaggct cattntgctt caagattaat acaagattgt ttcaacaaac 120  
 aaagccttga ttcaagattt cttcaagatc aagtcttgcc tcacaatgaa aggttttcaag 180

tcattcaagg cacatgtaat cgattaccaa tggtttgaaa gtgtgtaatc gactacacat 240  
catatgtaat cgactactac agactctgaa tgttggaat tcaaaattta aatgaagggt 300  
cataactgtt caagacaaat aactgtgtaa tcgattacac taattctgta atcgat 356

<210> 30619  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30619

tgagcgaatc caaacgacaa taactgtgta ctcggatgtc ttattgagtc ccgtaatata 60  
tcgacatgct cgaaattgaa tgttgaagct ctgagcacat tcanacgaca ataacttttt 120  
actcggatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180  
tctcagccaa ttcatacgac aataactttt ttctcggatg tctgattgag tcccgtcata 240  
tatcgagacg ctcgaaattg aatggtaaag ctctgagcca actcatacga caataacgtt 300  
ttactcggat gtctgattga gtcccgttac ttatcgagac gctccgaatt gaatgttgaa 360  
gctctcaacc aa 372

<210> 30620  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30620

tgctttgaat attggtcttt gccagtgaaa ggatcgatgt gggatatgaaa aaaggcaaat 60  
ttagtcatcc tgcttggacg aatgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120  
gagaaaccca tgctgtgact gccattccta tacggccaag tttcccacca aacccaacaa 180  
tgtcattact caatcaataa caaacctcct ccttaccac caccagtta tccacaaagg 240  
ccatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300  
agcacaacc aaataaaaca ccaaccaaga aatgaattnt gcagcgaana gcctgtatga 360  
ttcaccccaa attccggtgt catatgctaa ctttgctcca tatcta 406

<210> 30621

<211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30621

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agcttgcttc tacaatctcc ccctttntga tgatgacaac cctgaaatca agaaacacac 60
acacacacac actttttcct agtcgatcac tcacttaatt ctccatattc tccccctttg 120
tttttgagtt tatgcttcac ttgaaattaa gttaattact tatgtgagtt cttgatttaa 180
tccctatttc tctccccctt tggcatcaac aaaaagccaa agtgcgtaac aaatataaat 240
catacataca ttactaatca ttcacaagac attcattgaa aaatctaaac caatcatgaa 300
gcaagaaaca tgaatagatc anatatataa aatccacata gtcataatac acaattcata 360
attgttcaat catactatgc aaataanaga aaatactaaa tggtcanaatg tcataataat 420
at 422
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<210> 30622  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30622

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tctcaaacat taatntaaac aataaatgca caacttagca tgtttagtgg tgccaatagc 60
agttaaaatc actaaacaaa ttcacatgaa aggaattgat ttgaactaat gaacaatagc 120
aaacaaaagg aattaattga tgcacaagca ccaagagcaa tacaaattga tgctaataat 180
aatgacgcac cacatagaaa ttagaagcaa aaattaggct caaattggaa tatgatgcaa 240
tcacaaagag aaaggcactg aatgaattca anaaaaaacc gacgcatggt attaaaatgc 300
tataacaaat taacacaata tgccacaagt aggtgacaca catccaattg atatttgatt 360
gatgcacttc atacaaccaa tgcctaattc 390
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<210> 30623  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30623



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aagaagaaaa tgtgggatcc tgtgnaacca atgggtgcttg gaaagaagag ttaaaaactg 120  
ccgttaataa ttatgcttct gtcattacag aacttgatgt tgcaaagaaa gaactgagta 180  
aaattcgta ggggtatgat ttatcctcgg aagcaagagt ttctgctctc aagcgagcat 240  
cagaagctga agatgcaatg aatgcataca ccataagagc atgtgagcta tctaaagaaa 300  
ttttggctgt acaggaatca ttgagaaaa cgaatgctga atntgtccaa gcacatcaac 360  
t 361

<210> 30624  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30624

agcttgaatt ttatgttgat ttgacagaga gaaatacttg tagcttggtg aagttactag 60  
aatttggtgg ttgctataa gaacttgaca ttgtcttggt gggttgagatg aaccaacata 120  
aatntgatgt gtcttattct tttttatttc tcttttgcta tttgatctgt taggggttga 180  
atttgatctt tattatttaa aaactttggt tgttttaca agatttgaaa ctatcatctt 240  
atttgttntg caaaagtctg atatctgttt tgttaagtct tacttcacaa gacaataact 300  
ntattanttt acgaaaaaat tattttttta tgaaaattac aattcaatct tatttcttgt 360  
aatatttatt ttgcaatat tattatattg tat 393

<210> 30625  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 30625

tcctcgggtgc cattcactgc gattgctaac atttggaag ctagtttacc aagaaatgct 60  
actcttaaaa caaatatggc atacaacctc ctccaataaa cacaacatc aatgtaaatt 120  
tagagcaaac tcatgcacat acttccttat gaacattcac tcgcacaaaa tattcttcta 180  
cctaaaaaaa atgcacccat gcgcaatcaa agcacctttg ttacctagat atatttatgt 240



<210> 30628  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30628

accaagtgtg tctaactttt cctaagtcta tgtttttgcg ttgttgcgct aaacgcacct 60  
 tgcgcactaa nggagtactg ttatttttat aaggcacgct aagcgagcca gtctcgctaa 120  
 gcgcccattc tatttttttag ttttattttt ctgctttcag ttaaaataaa agcatgtcta 180  
 atatgattat tgtgcttatt ttttatgcag atgacctcca ngaagaggaa agccatagcc 240  
 tcccgatccc gggaaccata taacaccacc cattntgttt ntgaggtcgc ttangagcga 300  
 tattctcaaa acattcacac caggaacatc cttccagaga ggaatgttaa tctttttgtg 360  
 atagagtatg 370

<210> 30629  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30629

gcagctttac attaatattca gctctcgatt gtacgggctg atcagacatc gagtaaaagt 60  
 attgtcgttt aatttgctca gtgcataaca ttcaatttca gcatctcgat acgtgatggg 120  
 actgaatcag acatttgagt aaaagttatt gcgtttgaat tgctcagtga tgaacattca 180  
 ttcagcgttc gattataccg actcatanac atcgagtana agatttgctg tgatnactta 240  
 agctcacatt cattcacacc taattgtacg gactgatcga catcgagtaa agtattgcgt 300  
 tgattgtca actcacattc att 323

<210> 30630  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30630

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acaaaggaga ataggtaaga ggcgacgcca tccactatgg aataagccat gaatgagctt 120  
 caccacgaag atgagcaaag agagtgttgg atcgagtggc ctcanaatca ttaagaaggc 180  
 ggggggggtg aattaattat tcctaaacct ttactaatta aaaaattact cttctaattgc 240  
 ttttacttat 250

<210> 30631  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30631

cccacaacaa caacaacaat tcatacaacc acgatggaga agaagaagcg gtgaaacccg 60  
 accagctgtt caaggaaacc gcagagtaca tcgtgttgct gcggacgcgc gtcgtggttc 120  
 tccagaaact cattgagtat tatggaaaca acaacgacac cacccaagat gagaatgaac 180  
 atgaagatgg tgtcttgttt acatagctnt ttcactctct tcttcttctt catcttatta 240  
 ttattattat tcttttttgg tttcttctta catggtttgt tttgtgactt ttgtcctttc 300  
 attaataag aaaaaaacaa aagacaagat ctttgggtcta gtgttttttt tcttggagggg 360  
 ggggggg 366

<210> 30632  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <400> 30632

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 gtgatcactc aacattccag tcttatgtaa gaacatatta tggattaacg gacaataata 120  
 cctctatgtc tgagatcgct ctcacacaat aggctcagca tgtgggacgca tagaaagtgg 180  
 atagtggcaa aactgaatac atgctgctat atacaattaa tagactccca attgtctatt 240  
 atttgaataa gacctttgat ctttttctaa aataagcgga gctaaaagat tatctgtttt 300  
 tgatgtcaat attgaaaata gtactcttgg ctgataaaag tgaaaaatgc ataatacgcg 360  
 ataaaaatat 369

<210> 30633  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30633  
  
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 gctcgaaatt gaacatcgga agctctcgag aaattcaaatt ggtcataact tttcacacgg 120  
 atgtccaaat ttaggacata atatatcgag aactcggaaa ttccacaacg gatgtactcg 180  
 agaaatttga atggtcataa cttttcacac ggatgtccga atgtgggaca taatatatcg 240  
 agacgctcga aattgcgcta cggaagcact cgagatttcg aatggtcata acttttcaca 300  
 cgaatgtctg attcgcggac ataactcatt tagacgctcg aaattg 346

<210> 30634  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30634  
  
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 ggtttcaaatt cgtgccatag taagcatggg atatattgaa taacaattac agggagaacc 120  
 catgcattga tcttaatgat gtgtgtaatg agacaatgaa tgatgcacaa ttcgaaagct 180  
 ttgttgatat ttgtcacc cttggaaatt gttgctcttt tagtctactg gcagttgaat 240  
 cttttccctc tgcttcaatg cctctcagt caatggcatt ggcttcaact aggacttcta 300  
 caccatgtgg gacaaagtgt aaagttgtta tggttgatgt cactgatata caatttgatg 360  
 agttcaacac aggtcttgat 380

<210> 30635  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30635  
  
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 tattcataga gagatcgaga tatcttaatg atgaaagttt tccaaatgat ctaggaagag 120



tggaaattcc tttcccaacc cctcagccag gtccatatga gaaacagagt gctatctgtc 120  
 agtctagtga tatcaaaggt ttgattctgg aaaattatat catttctgag cctccatatt 180  
 gaggttgtaa ctgctatcca ccacattgtc cttcttatgt tagcatcctt tgaaactgct 240  
 gaggagaaat gctgaagaca attgtccaaa ggtctgcagt gaaacacctt ttcttccttt 300  
 atccaagata ggaattccca ccatatagggc ataattntgc cacaagtga gagtacgtgg 360  
 gaagcagttc aggttgacta tgacagaatg gcataaatat tatgcacctg aatctgcctc 420  
 ttaatc 426

<210> 30639  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30639

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 acttaaaagt ccttactaca aagactactc aaaatgcctc gaaatacaag gctataaccc 120  
 tatactacta gaatggccaa aatacaaggc ccaaacaaag gaaaaaccta ttctaantat 180  
 taaaagata agcgggctca aacttagccc atgggctcgg aatctaccct tangctcatg 240  
 agaaccctaa ggccttcctt tggatctctg gcccaatcta cttgggtgtct attatccaat 300  
 gcccttgtgg ngtaagatng catcattccc tccaccttgg aaaggattt 349

<210> 30640  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30640

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 caacttgaga ttttaacaga aacacttggg aagttgccaa cttaaactgtc tattgggtcaa 120  
 ctttcacatt cttctatttt gcagattaca ggttggttga tcaagtggcc tcagaataat 180  
 taagaaaggg gggggggggt gaattaatta ttctaaacc tttactaatt ataaaattac 240  
 tcttataagg cttatactat gttgttaagt gaataaagag tagaagagaa acttaaccaa 300

cagttaaagc gga

313

<210> 30641  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 30641

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tattatgtct tataacataa gggggcttgg aggtagactg aagaacaaag aggtacatag 120  
tttaatttct aaatataagt taaatgttat ttatgagcac gagacaaaat tggaggagat 180  
caatagtagt ttatattctt tggtgaggag ttgagatgat tatgagtttg attctaaaaa 240  
atcagagggg cggttatggg attttatgat gtggagaaaa gatcttttgg ttgtaaaaga 300  
ggtggtgtat aaggaacatt gggtatgatt aattggtgta tgtggcggtg agcagattga 360  
agtgtttatt gctggggtgt at 382

<210> 30642  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30642

agcttgctaa tgtgttgcac accaatgagc tcgcaagacg gctaaagggtg atgacttatt 60  
tgagggttact gagtatatgt tatacctgct agtagtctgt ttctgtatgt gttgttctgt 120  
tttatttacc cctgcaaaaat aaaggaaaca tgagaacagg gaaacagggg actaatccag 180  
cttatcagga aaatgggtgt ggaggtgggc tactgacacc aacagtttgt gagatgctat 240  
ttgtttatgt aaaacaaatt gttgtgagtg gatcaactgg agttgggggt tgtaagatan 300  
tttctgagg gtgttgtttg ttgataaaag agtaaccttt gganaattga attcttattc 360  
atatactctg aaatgac 377

<210> 30643  
<211> 252  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 30643

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tatcaattat gacctttcca gcaacagata caaccctgga tggaggaatc accctaacct 120

cagatggtcc agcccttata aacaacaaca gcagcctgct ccttccttac aaaatgctgc 180

tggcccaagc agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca 240

accaatagtt ga 252

<210> 30644

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30644

agctttcttg ataaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60

agcttagcta cacacacccc tctaataact aagctcacct ccttggggaag cttccttgaa 120

aagattccta aagaagctag agcttagtac acacacctct ctaatagcta agcttacctc 180

cttgagatga gaagctagaa cttagctaca caccacctat aatagctaag ctcaccctta 240

tgacaaaata catgaaaata caaaaaanag tccctactac aaagacaact canaatgcct 300

cgaaatacaa ggtaaanacc ctatactact agaatggcca aaatacaagg cctaaacgaa 360

ggaaaaaacc tattctaata 380

<210> 30645

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30645

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ggcacttgtc tctctttcga atttgctcgg aaaaattgtt tccgtgaaga aaatctaagc 120

cgaggcgctt gcgaaacgtt tccgtatcgt tttccgtgag gaatctcgca aagggttcaa 180

cgtttcttcg acgtttctca ttggtttctc atcgtttctc gatcttcaac gggtaagtac 240

ctcgaaccaa gcttttctat tcattctatg tacccgtagt ggtccacatt gtgtttcgtg 300

catttatatt ctcgttttgt tactttttat taccctgtt gcatgc 346

<210> 30646  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30646

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 aaatcacatt tcgttggtggg ggaatgtgag gctcanagaa cattgtgtat ttccatctc 120  
 tctttgcagt gcatatgata gagcggctat taaattccga ggagtggagg cggacattaa 180  
 cttcaacatt gaagattatg aagatgactt gaagcangtg atcaatttgt gaatatttat 240  
 attttgttnt atcttatctt gaacagtcac acctcatag tataggatca ccttatctcc 300  
 tacagttagt gctatntttt ctgtcttgaa gtactctcat gaatttgta aatgcaatgt 360  
 taatagatga gcaatcttac 380

<210> 30647  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30647

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 taacacccaa taagaacatc agaggaagtg atgggggata aaaataaaat gtcatgattc 120  
 atatacagac agacaaagat gaaagtcag cataggctta ttttctgaga ttntgtgagg 180  
 canganaaaa gacaggcaac aaaccctttg acagactcaa aatgacaaaa tagaaagaca 240  
 acaagacaaa agggcaagta atttgatggt gaggagctaa ggaacatact gtgttgaaaa 300  
 ataaagggtg aaattaaatg atntaggtag ttaataagt aaacctgagc angagaaata 360  
 aaatcataat atatgcaata ttgcatggaa t 391

<210> 30648  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30648

tatatgccta gatatcaggt taatttaatt tagcttatnt tcttattang ttttaattac 60  
 tttttttttc tgtcacaaat tactatatat gactgtatt tcattttctta ggccgcatta 120  
 attagtatgc atttgtttta ttaatttcta aatatttcca cttctttttc atgtgtgcta 180  
 ctacacagtc tacactatag tttgtgtatg tatgagaaag atgaacacta ggttatgacg 240  
 tgtacgagga gtttgaactg tgagtcanaat tactctacaa taatagtaat atctaatttt 300  
 atcctctata acaacgcaaa gctagaatat accccaatt acatggat 348

<210> 30649  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30649

gctattattg tgtgtagagg gaggatgaa cataggatgt cttctctcac aacttctact 60  
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 cacctctgta ttttgacaga gtaactaccc acgagtttga cagctaataag atctcattac 180  
 atcattcaca tatgtcattg ttatctaaca ttgttcctc agtctatggg ttacaacaat 240  
 tgtatattct tctctttatt ctcatatagg taccatttga agaagctcca gagcttggtg 300  
 atggacggta tgtgtttatt aatcaatgat atgcatatgt tgcaatgaat canggtcact 360  
 agtgtcatta cttctattt 379

<210> 30650  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30650

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 aaggtnaaaa atctgcaaaa acacattcac atcttacagt ttcttactca aataccccag 120  
 tacattcctt tgtccgattc gtaccgtgga tnacttgaaa tttactggag attctagtca 180  
 taagtnacat tntgaccgtg ggatctgtag aaatgtcaga atcaatatgt actacctttc 240

cataacc

247

<210> 30651  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30651

gcttttcttt gcttggctac aaaatcattg gtttgtctag gaacaaagga tagatcctaa 60  
gagagcacia atcctatact tatccaagt atcctttttt atatacaatt gcttactcac 120  
tagcttttca ctttcatttg cttttgacct tattgcatta gcacacattt cttttgattg 180  
gtttctttat tttggttctt cttctctatt ttttaaccaca caacttatgt gttgggagt 240  
ctgatgctat atctatttct ttgcatccca attagtttca cctccccaaa tttggggtaa 300  
atttgccttg aaccatatgc tctcctacaa tctaaacaag gtatcttgga gataatcatt 360  
taggttcacg gttcaattat ggacaaaatc attcagctca canaggggtgc atatgataca 420  
at 422

<210> 30652  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30652

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naannnnngg aaggagatg tatcgtaaac tgaagcgaat ttctgttact tcagatagtt 120  
ttctttgtga gtgtgctaga ataggagctt tgacatgtgg aaaatagatc catgctcatg 180  
cattgagaac tggatatatc ttatggttta taccatgcat atacatacgt tgtagggggg 240  
aaatagaata gctggaaaaa tttttagtg acatgaataa acatgaattt tgtacagata 300  
tgaaagtgga acgaccatgc tactggcttt ttaagatggg agtaacgtga actatgaatt 360  
cttattcatg ttggctgcgc acaagttggg caatgttaaa attttcagat ggtagactt 420  
ttt 423

<210> 30653  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30653

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 tcggtggttg agatacacta gtataaaattt cttgtgtctt attctctctt ctattattng 120  
 aactggccta cggtttgaat gtgatcttcg cttttgaaca actctatttg cttacaaaga 180  
 tatgagacta ttgtctgac tgtcttgcaa gaattgatat ctatgttctt angtgtactt 240  
 catcaacact atcttgatgt attcaaaaag gtttgagttt ataaatttgt aatgttacat 300  
 acatgatttg at 312

<210> 30654  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 30654

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 acaagctcag caaaacatgt tgggtgttgt catccaacca cctcccatta tccaacaaca 120  
 accaactcca agtatattgc ttgcacctgt tgaaggaaaa ccatcatcac ccacaataac 180  
 accaccagtt tcagcaccaa caccaccacc gaccaatcaa gagtgacgat gatgtcccat 240  
 cataattact ttctgtcaat gacaaaagga agagaatgtt atagaaattt gatttatgta 300  
 aatacgacac tcttataaaa taca 324

<210> 30655  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 30655

ctgcaacttt acttggtttg ctccggactt aaaccctgtc gacacactaa tttaaaccct 60  
 cccctcttta cagcaccctt ctcactctaa actactatcc ctggcaagac gactagg 117

<210> 30656

<211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30656

agtccatagt tccaatcaat catgctcagt atgatgcatg cacctgacct caactctcaa 60  
 acgtaatgtg gtaccatccc caaggaaata gtctaagcgt tgtagaagca aagcttccaa 120  
 gattattttg atgatgccaa agattttaaa aagatgcatt caaacaagat taaagaaatc 180  
 aagaagattc aagtgaagat tcaagagaag actcaagata tgcaagaacc tcaagaatag 240  
 ctcaagatga gataagaata atntttcaaa gaaaagaatg atagcacaat ttgccaaaga 300  
 aaaatcttnt accaaagttt ttactatct ggtaatcg 338

<210> 30657  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30657

aaaaatttct tggatagatt gaagtctttg gtcataagtt ttatttactt atgctgccac 60  
 ttgtgacaac attacatcat acccaaattc gtgtgcaatt tcgatgtttg cagtgtggat 120  
 ctgtctatac ttctctcttc aattcttttc aaatttcata ctcttcccaa tagagttggt 180  
 tgcagtttca ctagcagacg tccaaactaa taactatcca ataaatttca ccatcttata 240  
 ttcatgattg caaatctata taccggctaa gataaattat aatatagggt ttctaattga 300  
 tgtgatctct ntgactaata tgacag 326

<210> 30658  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30658

agcttttact tatccaagca attcaatttc caaacatcat gaactaccct aaactaggaa 60  
 aacagagtaa aggtagaaaa atctgcccac aacacattca catcttacag ctttccttac 120  
 tcaaataccc cagtaacatt ctctttgttc cgattcggtt accggttgat cgacttgaaa 180

attttactgg agattcctag tacataagtc tacatthttga cegtthgggat ctgctagaaa 240  
 atgtccagaa tccaatatgt actacctthc ccataaccag caatgcacaa gcattthttct 300  
 gcacatttgg tcaagttggc tgcacaattt gacagcttht tgctgcacaa tttggcagat 360  
 ttcgaaattc ctcttaccca cantccaatt tgctcanatt ggantcctac agtcctaaat 420  
 catgcataaa tcat 434

<210> 30659  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30659

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 attgatctac atcatgcaaa tttatgtgac acttctcatg cctaattgaa tgatntgatc 120  
 gatctatcaa cgctctattt atacatacat aaaataacaa gacgatttaa ttcctttgac 180  
 acggttctgt ccatgatgta caacaaggtg gttacatata cattatttaa ccaattaatg 240  
 aaaataataa tatgtttcat caaaactgac ctgaccttc tcatgcttat tgagtgaagt 300  
 gattaccggg cttgact 317

<210> 30660  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30660

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 gaagctctct tgthtttggt ggccattthg acatattcgt gcatathttac atagagacta 120  
 acccattgct aatagtctat attgagacgg gtcaatgggg gthtatataa ctatgttaat 180  
 tgctaatagt caatgcctat cagtatcatc acataatcca atgaccttag acttcattgt 240  
 ataatagtaa cacaatcata ttaacataat aatttacata atatggttgt cattatgagg 300  
 atcaatctct cagacaanaa gtcaaaggaa ggcggggacac aaggacagat gcaatntaaa 360  
 catccaattt gthttatata tthcaatgag aaagagatga tatatcatca cthtgacgtt 420

caatgtatga caa

433

<210> 30661  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30661

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tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120  
aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgatg 180  
taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaa 240  
acataactat gtaattgatt accaagaagc tgtaatcaat taccagtggag agaatttttg 300  
aaaaatattc tgaaaagtca cgtgtctntc aaaagttttg aaaagccacc aaggacctat 360  
aaatacgtga cttgtctacg aanaacatta gagttnttca ttagaaccta ngtagacatat 420  
tctctcaaaa caaatcatt 439

<210> 30662  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30662

gcttcttgtc tcanaaatgg cctttgcaac ataatgccgc attgctctta tggccttcag 60  
ataatgaggt atgatataac tcagaancaa atgaaatgaa gatcttctgt cttaattgct 120  
taaaaatttg ttacgttgag acttaattaa ctattctctg tttatgggcc atttatttta 180  
ttttgaccct taggataatg cctccgattt cataagggta ggtggaattc agagactgca 240  
ggatggagaa tttattgttc tagtaagttt tttctttaat gcacactnta actnttatta 300  
cagggtttct gctcttacct ttggatgcct aaattaaaga aacatctgaa catttgtaat 360  
ttanagaacc ggnggaaaat agattcatct ttgacctata ttgacctta t 411

<210> 30663  
<211> 387



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30663

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aacaaataag tcataagtca tcaagacata aagcatttgt ctgaggccct ggcattctaca 120  
agtcctaatt ctcttctaatt ggcgtagaaa gagcctttgg ttagtggttc tgtgaagatg 180  
tctgcaacgc tggttaattag tatctacaga tgctcaaaac acagtcacct ttgtcctcag 240  
actaacggct aatngaccat caacatttac caagataagt ttttattgac atagaagggc 300  
ttatcatatc aggatacttt atttgaaata catataataa ttttgaaaag cataaaaatt 360  
tttatcaggc catcaagtat tcgacat 387

<210> 30664  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30664

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aatacaatac ggcgaaagta atgttagaga cagacaaaag gagttgcaag acatcattat 120  
tattgtgcat aataacaagt tttctttttg gtgcagtgc taataacaag ttagtaataa 180  
tcactacatg ttttcttttt cagttgtcgc ctttattcat cgaagtatga ctctaattct 240  
gagtcttttt ttttgggtata aactaatctt gaatctgaat ggggtggttaa gtaaatctct 300  
aattgaaatg atactttaat ctaaaattta aac 333

<210> 30665  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30665

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ttctgtaagt taacgaggtt gaagtataac ttctcaatgg ttcttttgaa aaattgcatt 120

tgcaggtgca agaaagataa ggactaccta tataagcatg aagtntaacc gcttcaagaa 180  
 gctgggactt ggctttgata tgcttatgaa ggatagggac acaggctagt aaactagtgt 240  
 ccaacaagag taatgttata aactattgtg cagattatct tcatgtattc attatgaata 300  
 gaaagggttc aatccttagt gacaccctga tattcgaata tctgaaacgt gtaatttgtt 360  
 aagatgaaat tcaatcgtca cgatatttca tctatgcagt aatttgtggt atgttatgac 420  
 tttggt 426

<210> 30666  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<400> 30666  
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 ccaatataat acgaaaataa atgtcttgaa agaattgaaa atgtattata gaggatctca 120  
 atccaatgag atactaattg ataagcctat tttaacctct acctaaaata aaatatacaa 180  
 gatctaattc atatggctta attcgatata ag 212

<210> 30667  
 <211> 182  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30667

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 tcatgcatgc acctatgcgg aactcaagt gtcaaatttt tatggatcatg ggatgctacg 120  
 gctcangatt catttcctct attgtagtgc aaccatgt atcaaaatat gttcttttat 180  
 ca 182

<210> 30668  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 30668

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ctttgcaaat ctgatttcag gcttaaataag gtggccttgt tegtgtctgt gcgcttagcg 120  
cagatctaga tcacttagcg cgcctaagtg gattgtggct taacgtgctt gtttcgctta 180  
gcaaatagagc tgaagcgggtg cacttgatga cctggagtgt gacaccctct accccgacat 240  
atatataaat aaataaaata tataaaaata tatttggtaaa caaaatcaca tgggtaaaaag 300  
gttcacattc acttcattta ccaaataaaa cttattaaaa acaaattc 348

<210> 30669  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30669

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cacctccatg ccaaaatata tgaaaatata aaaaagtctc tactagaaag actactcaaa 120  
atgcccttaa atacaaggct aaaaccctat actactagaa tggccaaaat acaaggccca 180  
gaagaaggan aacctattct aatatttaca aagacaagtg gacccaacct tgacctatgg 240  
gctcaaaaat ctaccctgag gttcatgaga atccta 276

<210> 30670  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 30670

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tcttgaactc attctttgat tcttgagatc atcatctttg gtatcatgaa ttggtgatga 120  
tctttgagtt tttttgtatc acctttgtca tcatcaaaac ctctttgaat caatcctgat 180  
tcaatatgaa gctggcttct acaatctccc ccattttgat gatgaccact ttctaaatca 240  
agaaacacac acacacacac aactcacac actttttcta gccgatgact cacataaaat 300  
tcctttctcc ccctttgggt tttgaatata tgcttggctt aaaattaaag tgattactca 360  
tgtgagtcct tggattaatc cctattctct cccctttg 398

<210> 30671

<211> 303  
 <212> DNA  
 <213> Glycine max

<400> 30671

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 ctgtacaagt tctaagcg caccacttca gttcatccac taagcgagaa aggcgcacta 120  
 agccaaaaat cactaacgtg cgctaagcgg tccatacgtg cgctaagtgc acgagcacga 180  
 acaaggccac ctatttaagc ctgaaatcag attttgtgaa gggagtttgg attgggattc 240  
 agagctttgc atgtctaggg tttctagaga gagaaaggtc caagttctag agagttttga 300  
 gag 303

<210> 30672  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 30672

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 taaccaagag gcatgtccat gtatactccc tcaatcaaata cactattgaa aaacacatta 120  
 tttaaatcaa gctgaaacat gttccaattt ctgtgaggtg caatggaaag aaacactctc 180  
 attgccgtat gcttggcaac aagtgagaaa gtgtccaaaa aatcgatctc tgcttgtatg 240  
 ttgttgtgtg taaccttttg caacaagacg agccttgtat ctatcaatgg agccatctgc 300  
 tctatacttg accatataaa tccatctgca actgatgggt ctattatcgg gtg 353

<210> 30673  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30673

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 gggatgacga cgtccggcac caatcaaagg tcggatcatgt ccgcaaattg ataatcgctg 180  
 aatacttoga cagccctcaa cctcttttgc atgagatcga gntttccct 229

<210> 30674  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30674

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tctcgcttca tttacctttt ataccnctc ttgatgtgct taagccattt tacttaagtc 120
atctctcgct taacctaaaa ataaaatata atttcaccga tcgcttgaat tgtattatcc 180
gttaacttcn gttaaaatga attccgaccg ttcggtcgtg ccgtaaccac gttggatata 240
ataaatgagg tcacaaataa tataataatc aaaaaacatc tctttagtaa ataaagcgga 300
tatcaatcgg acgtttctct ttgggattct cattcttatt gaatngctaa taactaagtg 360
aact 364
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<210> 30675  
 <211> 186  
 <212> DNA  
 <213> Glycine max  
 <400> 30675

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ttagtgaaaa catgattaca tatctaggat ttttttgctt gaatgttggg aataaggggg 60
gttttgtcat tggatacagt gtgatggctg cttatgatta tttgaccatc ttgagtcatt 120
gctatggtaa atgtgacatg ctgaatatag ctgttctaaa gctacatgct aaaaatcaaa 180
aaaaaa 186
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<210> 30676  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <400> 30676

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gtgtaatcaa ttatgatcag attgtaaccg atgaaaatag agttttaaac attgaagaaa 60
ttttctaact ttagaacctt tcttcttagt cctacatgat gatgcatgat gcacgtatga 120
aatgatagag actaagatgc aacacacaat acaacagtca atacaaacgc cactcaagag 180
```

agttgggcat gtaaaagaca aaacttcttc aagttcttct ttaagcttca aggccaagtc 240  
 tttattttgc tccccttata tctaacaatc tccccctttt ttggctttga tgatgccaaa 300  
 cttgaattct ccatttgagt gcatttggag agtcttaaga gtagagactt ttcttagaca 360  
 aacctgaatg 370

<210> 30677  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30677

agcttccagt ttattttcat attntcagct cctagtttat agcttataag ctttcaacta 60  
 acttattaat tagttttacc aaattaaatt tgttagttta taagttttac ctagtttata 120  
 aatgaaaaaa taaattaagc taaaataaaa tgttcgtctt ttatgtattt tttgtttcta 180  
 ctctgctcct ctaatttagn ctcttataac tttcggggaag ataatagaaa atggaatcga 240  
 ttgaaacata gtagaatggg tgaatcatga atagaaagaa ttaacaatat gtcactctat 300  
 tattaataaa tgtagatgta taatataatg gtcaaaaatt agattccatc atttgataaa 360  
 aggagttgaa taaattatct ttttattcat tatgaaaaat aa 402

<210> 30678  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30678

cttatttcat gtattcactg ttctctggt acttgattat tatatatatt tatctttgcc 60  
 gagcaaaaaa caaatgtcta tgggcctaga gcatggcaat gcaggtgacc canaaatgga 120  
 tctaaaatag actctgaaat cattntagaa tttgggctta gtgaaaaggc ctaactcatc 180  
 ccatataacc gacttgtagg gtgaggattg ctcaaacttt ataagctcta ttttaagttat 240  
 atctctagac tatgtgggac taaatactc 269

<210> 30679  
 <211> 417  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30679

tgctttctct tgccatttcc tgtgaaggca aaaatttgga aagttagttt taccagtggg 60  
acactactct taaaacaaga atggcataca acctcctccc ataaatacaa acatcaatgt 120  
aaatttagag caagcttatg cgcatgtttc cttacgaacg ttcacttgcg gaagacatcc 180  
tattaactaa gaaaaatgca cccatataca atcaaggtag cttcattacc tagattattt 240  
acatgtacct ccaaggtgta tttgttattt acatcacaca cacctccttg gctgaattta 300  
catacatgca tactcaaagc attntggggg accaaaaact gcacatgcmc tcatcttggt 360  
atntctaaat accctacata tacaaacttc acgatgaatc ttgactgcct acacaat 417

<210> 30680

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30680

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attcattttt ctttctaate ctctatcaga tcagcactcc tcacatcttt caccttgaat 120  
tgacaaaacg tgacctatat ttctatgtgt gtcttctgag gtatcattcc ctaattaatt 180  
ttacattntg acaccttttc ctctctctct ttccaggatg ctgctagtta ccgtgatgag 240  
ctaaacaata ttgccccaca ctctctttta aaatgttgca gcgatgctac aacattggta 300  
tgatccctac tttcagttta atacgtttta tctccgagtg atgtaagcta tctcaagaga 360  
aatacagtta acaaggaaaa ccaacttcct tttttaaaca gtcttttaag ttgattgcac 420  
t 421

<210> 30681

<211> 168

<212> DNA

<213> Glycine max

<400> 30681

agatattcca aactatttgc cctaattgaa aatctatttc actttgtact caagttatga 60

attaccttaa tgacgatctt ctttaagtaaa tgaaacaatg tggatatgaa tataaagcaa 120  
 ttatgatata aggagattaa gggaagagaa aatgccaaact cagtttta 168

<210> 30682  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 30682

ttgcttgcca ttgtgagaca tcagaggcta gtatttgaat aaatgtgggt aagaaaaatt 60  
 caccaaattg atagagaaca atctaaaatc atacatctta ggcaaataag gcatgctagc 120  
 cccaacatt attgcatttt gattccatct ttacacattc aaattgttgt ttatttctcc 180  
 tggtatcttt tcctttgctt tagtctaaat ttcaaactta caattccgta tctctttctt 240  
 cttttgtttc tcttcatttc ttaataattg gatttgcac acttaagtac aaccaagtc 300  
 cctctggatt taattgttga acttcaattt caatctttac tactcgtgat aaaattacga 360  
 cac 363

<210> 30683  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30683

cgaccttaga atactcagct tctcgctcan aattcacttc ttggttggtg tttttggttt 60  
 gtgctaaagg tgggtgtcgt cattggaagt gtggtagaca gactttgtgg tagatttagg 120  
 gatggccttt gtggataact ggggtggggg taaggaggag gtttgttatt ggctgagtaa 180  
 tgacattggt ggggtgggtg gaaacttggc cgtataggaa tggcagtcac agcatggggt 240  
 tctccctctt tctcaccctc ttcatttgcc ccagttttct cagtcgtcta 290

<210> 30684  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30684



agacaacggg ggaaatgagc gactcacgnc gtncnaanac ncngnacccg ggatcctgtc 60  
 agtcacctgc ggcatgcaag cttcagttta ttttgcattt ggctgaaatt aatttaagtg 120  
 ttgtattgcg tattccatga tgatacatc tgtgtgcgtg ctaaataaat tggctcactg 180  
 cgatggctta tgagatgggt tgccttcaga aaatggatgat tgcttatatt atcttagaga 240  
 ttgctgatga gaaatgggtg accccctgat aacacgcata tgctgtgatc gctctcgtgt 300  
 gcttgctata tcgacccatc accatatcta tacatcctat gactgcttta tgcactagaa 360  
 ctggtcataa gactttctga gaatatatat cgttatgcat cgggcgttta cacacngcc 420  
 cggctttaca gaacatcatc ccaaaaaact gacatggctc tcttggtgaa tttccatact 480  
 tagagtttga ctctctcg 498

<210> 30685  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30685

tagaatacta agctntgatc catgaanacg acaattatct ttttctcaga tgtcttattg 60  
 agtccaataa tataacgaga cgctcgaaat tgantgttga agctctgagc taattcaaac 120  
 gacaataact gtttactcgg atgtctgatt gagtcccgcc atatatcgag acgctcgaaa 180  
 ttgaatgggg aaactctgag ccaattcaca cgacaataac attttatggg atgtgtaatt 240  
 gcgtcccgta tcatatcgag acgctcgaaa ttgaatgggtg aaactttaga caattaaacg 300  
 acataacttt tacttgatct ctgangagtc ccgaacat 338

<210> 30686  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30686

tagctttctc tgggccattt cctgtgaagg caaaaatttg gaaagttagt tttaccagtg 60  
 ggacactact cttaaaacaa gaatggcata caacctctc ccataaatac aaacatcaat 120  
 gtaaatttag agcaagctta tgcgcatggt tccttacgaa cgttcacttg cggaagacat 180

cctattaact aagaaaaatg cacccatata caatcaaggt agcttcatta cctagattat 240  
 ttacatgtac ctccaaggtg tatttggtat ttacatcaca cacacctct tggctgaatt 300  
 tacatacatg cataactcaaa gcattntggg gtaccaaaaa ctgcacatgc gctcatcttg 360  
 gtatntctaa tacccttaca tatacaaact tcacgatgaa tcttgactgc ctacacaat 419

<210> 30687  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 30687

ccttgccctca tagagggtcca ggatggactt tgcagccgaa tgatctagtt ccgctccgga 60  
 gtatgacagt caccgcttta tgagcgctgt acaccagcat cgcttcgagg ccatcaaggg 120  
 atggtcgttt ctccggggagc gacgcgttcc tctcatggac aacgagtatg ctgatttcaa 180  
 tacgaaatag ggcgccggcg gtgggcatca ctggatactc ccatgccagcag tttgaccoga 240  
 aatagtcctt gagtttatgc catgcttggc cacaagatg gcgtgctgac atagatcctg 300  
 cgtaggggtca gtgaatctgt ttgtgcca 328

<210> 30688  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 30688

acttgatgat tgttactgtt tctcaattat aagataagca ttgtgttatg acttggttct 60  
 gattatcaat ttaagataat gatgactcct tcataactct ccatacctga agtggtatgt 120  
 aaagggtgata atatgtaatt tgatagttat ttaaggaaaa aatgcctaag tctatactaa 180  
 aataagttgt cattattaaa atgatgttac aaatccactg attatatttg ggggtgaggt 240  
 caatggctca agtatcacat tgaccactgc aagattttac ttcattgttaa tatactttaa 300  
 ttctttatct gatgcaattt aatctatcta tcgcttatga ctacttaaa 349

<210> 30689  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30689

ntgcggatgt ggtcttcgcc ggtgaattgg tcgaagcgga tttgaaaaga ggaaaatgta 60  
atcatcctgc ttggacgaat gagaaaattg gggcaaatga agatgggtgag aatgaaagag 120  
aaacccatcc tgcgactgct gtttctacat gggaaactccg ccaccagctc aacaatgtca 180  
ttacatagca aataacaacc cttctccgtt actaccacct aattaaccac aaacgccatc 240  
ccttaatcat ccacaaaacc cacctgtcac aca 273

<210> 30690  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30690

agcttgaagt tatatgttaa aataactnng tgtattcttt ttacattctc ttgcaacagc 60  
ctncacttga gnnttatcat tanannagtg ttcagggaat nntaatccaa acctattaan 120  
nattgatccc aataanaatt gatnaatcga gcanaattgt tatanaaaaa tacctaaaca 180  
cttcaatgcn agttcgggtt tgtgattctc atgttcaaaa ttgaactgag tcaaattgga 240  
aacgtaacta aatttatatt agtcttattt tgtcttcttt ntttactgca attcctatat 300  
atztatcttg aaatacaatt taaccttatt tgaacttata ttattatttc tgaataactt 360  
gaagataatn tgcaatntag tctgtgattt agatcaagtt gtggttttat gaccagaatt 420  
aatagtttga aatgatattt ctgtatatgc atttat 456

<210> 30691  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30691

ggatgtgatt ggggacctga gactcaaacn tataaaaccc ngaatggaca tccggtgaac 60  
ctttgaaatt ngaatttatt agagcttccg aggttcaatt tcgagtgtca atatatgtga 120  
tgcgccatat atggacattc gagttaaatg ttatgaccct ttaaatatct caagagctta 180  
cttggtaaat ttcgagcctc taacatatta tgcgccccag tcggacatac gtgtgaagag 240

ctatggccat tgaaacatct gcgacagtta tcgatgataa atttcgagct gatcgggtatt 300  
 ataatagccc tgaatcggac atccgagtgt aaagatatga ccatttgata ttctcaagct 360  
 ctttccgtga tgcatttgta gcctcttaga atataatgcg cccgatatag aatccgtgtg 420  
 aaaagttatg atttataaag tctcagaagt ttcgagtaca ttccg 465

<210> 30692  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 30692

agcttgtttg ttataaagac ccaataattc tacctattgt tgtcattcta tttaccatgc 60  
 attttatagt ttttagcata aaagtttagt ttaaattcct tttgaaatta tcacttatac 120  
 atgttatctc aacaatgctt caattctgaa cttaattcag gctaacatta acctcccata 180  
 cttccatggg aaggataatg tagaggctta tttagattgg caaatgaagg ttgagcaatg 240  
 aatgttcctt tagctaccct tagcttccaa gggtagctc tctatagggtg gacttcactt 300  
 gttatggaaa gaaacattca ttgggacct ctaatagagt attggaatga cttgaaaa 358

<210> 30693  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30693

gagacngaga ccaacatggt agctatcatc gccaaagtacc aagaagagtt aggtctagcc 60  
 acggggccacg agcatagaat cgcggatgag tatgctcaag tatatgcgga aaaagaggct 120  
 agaggaaggg tgatcgactc ttacaccaa gaggcaacca tatggatgga ccggttngct 180  
 cttaccttga acgggagtca agaactatca cgcttgtag ccaaggccaa ggcatggca 240  
 gacacctact ccaccncga agagattcat gggcttctcg gctattgcag catatgataa 300  
 cttaatggcc acataataga aatcgtagg acttgatggc tctcaacctc actgatacga 360  
 ctctttttga ataaatgagt ggtcatgttc tctcg 395

<210> 30694

<211> 207  
 <212> DNA  
 <213> Glycine max

<400> 30694

aaaattgatt ctcacacccg aagctgtgcc tttatggaga atcctccttc ggcttatcga 60  
 ttctatgtgg ataatggcga cagactgtgc atattcttca tcttatgcac attttctatt 120  
 gttctgccct tgagctctca gaaagtcaac aatggtgggt cttgaatttg catcctgcac 180  
 gatacatacc aagtgtccac ggcttgg 207

<210> 30695  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30695

agcttgtaac tgatgcttaa tggaggaaaa gaaagaggga gacaaagaga gatggcgagg 60  
 gcacnaaatt gaaggaacaa aagagggaga gaagtggaac tttgaagtat gtctcacaag 120  
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatgtata gactaggtag 180  
 cttccttgag aagctntctt aagaaaactt ccttgagaag cttctttgag aaaacttgct 240  
 tgagaagcta gagcttagct acacacaccc atctaaaaac taagctcacc tcttgagaa 300  
 gcttccttga gaagctagag cttagctaca cacacccatc t 341

<210> 30696  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 30696

gaataccatt tttcggggaa aaaatgaaat cgacagagaa aagaaaaaat acaatacggc 60  
 gaaggtaatt atgcaagcac aactatggga cattctcttg tggtaactact ctctgttgaa 120  
 atagggattt cacataactg atattgaatt tggctcattt tttatagacg atctgacatg 180  
 aactctcacc ctttgggtgt cctctaatac atcgaagtat gactctaata ttgagtcttt 240  
 ctttctggta taaactaatc ttgagtctga atgggtgggt aagtaaatct ctaattgaaa 300  
 tgatactcta atctaaaatt taaactccaa aggggtataac t 341

<210> 30697  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30697

agcttgtata ttttcccaat tcatggntat ttggagtaa attttgtaaa taaatcttgt 60  
 tttatggtta acgctgtctc tagaagattt ccattggatt taatgatgaa atctgtgcat 120  
 tctcaagtga aaaaaaaggc taagttttga attgcaaaaa gtagcagttg ggctaagctc 180  
 aacagttggg ctaagcgcaa cttcagcgcg cttagcgcaa aggagaattt ggtagagcat 240  
 cagcatcaaa gttgcgcgct aagcgcgaga ttagtgcgct aagcgtagta ggtgccttca 300  
 gccaggctaa gcgcgaaact ggtgctaagc tcaattccac tta 343

<210> 30698  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 30698

agctttctata ctaccccatt tctctccgc ttgggacat cgataagcca aagttcgtgg 60  
 caaccaacac aagatgatat aactaaagtg tacataatca atcataagtc acaaccagat 120  
 ataagccaat cgtccataag atgaaaccaa atatagtcca agcataaata acgtataacc 180  
 aagtataatg caagcgtaaa agactaag 208

<210> 30699  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30699

catcaagctt gtgttcgctt agactacatc gcactacac cttttgtacc aggggcaagc 60  
 gagcttghta cacgcagaga ctacatcgctc ttctgcacct tttgtcatcc agagacggcg 120  
 agtccgatga catgcggagg taccttatgg ttatccgcac cttttgtcag ccagaggcaa 180  
 gcgagcccgt tgacacgcag agactaacat cgtcatctgc accttttgtc aaccaggggc 240

aagcaagctt gttgacacgc agagactaac gttgtcttct gcaccttttg tcatccagag 300  
acggcgagtc tgatgacatg cgaggggtacc ttatggttat ccgcaccttt tgtcatccag 360  
agacngcgtg tccgatgaca ttcnngnggta ccatatgggt a 401

<210> 30700  
<211> 522  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30700

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gagctgtnga cntctcnnga ttcttattcg cttagacnch natatcgcat ggggggagng 120  
gcgttgctat ggccctggaa taatcgaaaa catagtatgt agtatgttgc ctcggtanga 180  
aaactaaacc ttgtgcccac agatcccgtc tctctatact tctcattcac cttatgttat 240  
ttcatatcgc agaaaacact cttggctttc catacgcgcg tgctttgtga atgcaaactt 300  
gatatgaagt taccgcacta ctnatcatct tgagcggtat actcaacgaa ccacttgtgt 360  
gaaactggga tgttataata aggccatgat atcgtggagg tctaagtata acgacaactc 420  
gcgaagtcaa tgtgggctta cctgcgaaat acatgtggga catgttacat gagcccaaca 480  
aactcagggt ctcttttggt tcaactaaga acgaacgtgt tg 522

<210> 30701  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<400> 30701

tcagcaacta tggctattgc tacgcccact ctctctctcc atttcgcaa attccccatt 60  
cgtcaaacgg attcatcttc tccaatacgc catcgagcc cttctggccg acggttgaat 120  
ctctattacc ctctagtttc tcaaaggcta cttttttttt gtttgttctt ggttaaatga 180  
aattgaaatt tcgaatttgg attctgagtt aaatgttaac cgggtggttg ttgatatttc 240  
cttctgttct attggttaca gaattgcgtg ttggcactga tgtgcatttg gatcattgtt 300  
gcaccgatgg ggatgggga 319

<210> 30702  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30702

aaaaaaacgc ggggacggaa ctgagcanag cactncaann cncctnngaac cgggatcctc 60  
 tgagtcacct gcggcacatgca agctgccatt ggtatttgat ggtgcatca tccactgaga 120  
 ctaggcaagg ccggaccctn ctatacaagg aggctatggt attcaaagaa ctgtgtaatt 180  
 tttaaaaccc aactaaaatg gtttgagccg tcaaactcttg gaacatctag tttcattctt 240  
 ggtggatagg ttaagtgggt tcgtgggtgca agtatgactg aagacgacta acgtgaagct 300  
 gtctgtggtg aagtgtttct atgggtggtga cactgtgtta aggtcatcaa gtttctcact 360  
 aacgtggaat ctgttagatg ccaatatggc gatagctctc tctatgcgat cctattggat 420  
 atggaccgcc ttnattcacg catggtgagt ctctatttga agcacactag atgggtctgag 480  
 ctgacatcaa tgctatatctc tacgcg 506

<210> 30703  
 <211> 93  
 <212> DNA  
 <213> Glycine max

<400> 30703

gtttgtgggt agtaatttga ctgatatgta ttcaaagtgc ggggagttgt ctgatgcatg 60  
 taaagctttt gaggaaatgc cttgttaaga tgc 93

<210> 30704  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30704

agctntgatc canaatcctg actcaccata naccttgacc caaggtgaga atgccaatcc 60  
 ttatcctcgg aagcaaaaaa agaggagaag aaaatttcca atcaaaggaa aaaggagaag 120  
 aaaatntcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180



aaagaaattc ccaatcaaag agtgggagaa agaaaaaaag aaaagaaagg aaattcccaa 240  
 ccaaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300  
 tgtgcagaga ggtcttttga ccggacaata tctgaacaat acagaattgt caccaaattg 359

<210> 30705  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<400> 30705

aacgttctct tgcacaagac atttatatca aagaatgcac ccatatacaa tcaaggcagc 60  
 ttcgtcatct agattattta cacgtacctc caatgtgtat ttgtaactta tatcacacac 120  
 atctccttgg ctaaattcac atacatgcat actcaaagca tgtaggggta ccaaaaattg 180  
 cacatgtgca cctcttttga tatctaatac ctatacatat 220

<210> 30706  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30706

ctcacattca ctatcttcta catcatattc aaagttgtct aaataaataa taaagtcac 60  
 tcgactcata gaaaatcata taagtctcat acaattaata tagaacctat atcctaattgt 120  
 cacatcctat cagagcgtgg tgttcccggtg tcctctagca tgagggttctt catagtcac 180  
 cacctattca tctgctcccc cgaacacaag ttcaagatca tcacangatc caaacacaa 240  
 aacacacagg gagtgagtta tcacattcct atgctataga gaaacatgac aattatatat 300  
 acatattata taaatgagat accacttgct taaacatagc tcacgtaact tcaccacttc 360  
 atcattcaaa attcactctt caatta 386

<210> 30707  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30707

atttacaaca gtgttacaac agaacctaac tgtntctaata tatatgggcc attaaatcta 60  
tcatgtgttg acagtaattg attagcccggt gaatttcctc tggagctgaa cacacttcgg 120  
ccatggccct tgctgtggct agtacatgcc ggagctcttg acttccattt aagggtcaagg 180  
cgaacctatc catccacatg gtcacttctt gatgcaatgc atcaatcacc ctacctcttg 240  
ctgtcttctc ggcgatgct tgtgcaaga cctctactag ctttttctca tgggtcaaag 300  
attggtttaa ctcttctatg tactgcccta atatagctat aacctgcttt gcttcttggc 360  
ttctaagcgt gtagccaaac tattcttgga tctgagcaac cagtaactcc tcctttagac 420  
atgccatgac ctctgattgg tcttttcctc 450

<210> 30708  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30708

tgaaaccttg tacactggaa tccagttagt ccctggatct ctgagcacct gcggagcagg 60  
aattttaact ttgacagtcc agttcagcgt ggcacatttg tatggtgtct gtggcaacga 120  
tgctgctcct gagatagcct acttcatact agatgaacct acatagtgtg gagccactg 180  
cccccggtgg ggctttgaac gctgtacact gaatttagca caatgacccc catcctgaac 240  
tggagcggtg caccgctgg tttagaatt catgactccc tatgagatat ggcgcgctga 300  
ctattgggga cagtcatgac gttggggaga ttaactgaca aagcgcgctg gggacactct 360  
gatggtacgc gctaactcag tgggttatta caaaggaccg tgtccttaat ggggccgagc 420  
ttggtccgcn 430

<210> 30709  
<211> 221  
<212> DNA  
<213> Glycine max  
<400> 30709

actggccagg cccaaacaca catgcaagac aaagtgagcg aaaccgagca gcgcgcagag 60  
aaaaaacgca gactgacagc tgaaccagta cctgacgcag aacaacacga aatggaaacc 120  
ccagcggaga cacgcacggg cggcccaccc cccgagacag aacagggcga cacaggcccc 180

cacaacgaga ggcaaccacg acccagaacc ggacacgcga c 221

<210> 30710  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30710

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catacttctt aaaaagggtgc tctccaagga ttttccatct tttgggttca atttaacatg 120  
agccctaccc tgaaaagctt caacaagtac ctaccttggt cttaaagagag ttatcttaag 180  
aaatctaaca tactcttggg atggaggtgg ngcgctctat acttccatgg ccacattagc 240  
aacaacaaca cgtgcctcat catcaaaatt cacctcttca atgatggatt gtacaggat 299

<210> 30711  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 30711

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tggattgaac ccatacacia cctcaaaacg tgactgcttg gaggttctat gaaccaccc 120  
gttgatgcc aattctacat gacgaacata ctcatcccaa gacttatgga tgcctttcac 180  
aagagccctt catacgggtg ataacgacct attcactacc tatgggtgcc catcaatttg 240  
tggatga 247

<210> 30712  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30712

agcttctctc ntttcttggt taattattat attctgtttg taagccttgt attttgctat 60  
gtttttatga catttgaaca cttagtattt cttttaaata tttgtttagt atgactaaac 120  
atgatgatta cttgctcttg gttgattatg gttatgagtt ttaaacttaa ttattttgat 180

gatatatgat tagtggtatg tacttttatt tggttattat gaatgactct ctggattata 240  
 tgacattcta tgaagtatta tctttctaag atngatgaat gtgtaagtta tcttggttga 300  
 tagatctcta ttctcttgta tgattagaaa tttatgtatg tttatatatg tacgcac 357

<210> 30713  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<400> 30713

aaagaatgtg actcttccaa ttgaatatgc atatctatgt tcacacacac tattgatcga 60  
 ctaccaaaca gatgtaattg attacatcat ttcgatatta tttggaacgt tgcacattca 120  
 gtttgaagc ttttcgaaaa ccatttagct attggttaatt gattacaata atctggtaat 180  
 cgattactag acagtaaata ctc 203

<210> 30714  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30714

tttctacatt tttcaagacc gacggccngc tttgttttag cggacacaat cagacagccg 60  
 agngagaagt gatcgccgag cgaacngact ccgacactaa acagtcaata tcgagcgtcc 120  
 tgatataatc cgggactcac tcagacatgc gattaataaa gtcgttggtcg tttgaatgtg 180  
 ctgagatcat taaactttca ttttgaacgt cttcatatat taccgcactc aatatgacat 240  
 ccgagtcata agttattgtc gtttcgggtc gtaccgaacc tctgcatact gtttcaaaca 300  
 tctcgaattt tacgaaactt tttatacatg tgagaaacag tttttaccag tcgtatctgc 360  
 ttgcaactct tctattttta atcgcggtta tatatcacn 399

<210> 30715  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30715

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acaataccgg cacnagctct ttttcccggt tatttgattc cggccgcaag tttttgttgt 120  
atgctgaggg cgacacgcca ccgggcgagc tacttgatgg tatagatcac acaccaggt 180  
cctgtgcatg tgctataaga taccgcacta ctcaatctag cttaatagat gagagcaacc 240  
atggatcaaa aggttctttt cgaagcgagg gatcagatac tagtcgactg gtgacgccta 300  
gccaagtttt atgcacaaac ttaggacact tgctcaggtg gatacgctcg gtctctcacg 360  
tgccgggatta tcaatgaaaa atgaatgtct ccattgtcgc tagtatatat tgaccgctga 420  
aatgatcggg cgataatatt tggccgtact atagaaggaa atagaagtgt catataaacg 480  
ctcaactagg cctccc 496

<210> 30716  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30716

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ggcaagcttt ctaattcgtc ggcagcaaca gtgtttctca tcgctctaca tgacatagat 120  
atctacgctg caaacaaatg gtactaatac atcatctact cttatatcaa cacaacgcta 180  
ttgggctatg catcacatct ctctgaggag ctctgcgttg gcatgctagc tcattaaaat 240  
gggagcgtac aagcctgaca ccatgctaga gaagtctgga tagcgacgta gttcttttagc 300  
tcttgtacca catcgtgagc tgatgacatg gcaccattgg ctgagagacg cccgatacta 360  
acatatgaa cttcgtgta ctatattaca tgagtgtata tcaagaccaa ggcacggctc 420  
tactgacgga tagagagccc agacactgac tgc 453

<210> 30717  
<211> 348  
<212> DNA  
<213> Glycine max  
<400> 30717

cgccaaccct ggcacttgcg gcaactacgc cgcccagagg ctaactgtga ccttaacacg 60

ctgggacccg cgacagagca gcagttgctc agtatcacac cggccactgc cggcaacgtc 120  
 aaacagatga cactagaccc cccggcgacc gacatacagc gggcggcggt caggaaggaa 180  
 aagcgcccaa tatgctgcaa ccgaacaccc aactcaatcc gaaaaagggg aagaacccaa 240  
 aaccgcaagc cgacgaaata cccgaatcgc cccgatgcga aaacgatcag ccaacgcgca 300  
 cccgaacgtc atgatacacg cagaccctc gcacacaaag tcaccaac 348

<210> 30718  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30718

tgtagattgt tagtggtgat gagggaaaag tccctcagca tcgaaggcta gctacatcga 60  
 cacgtagaca acaaacaact atagatgttg caaaggatgt tgagaatgtg gataatgttg 120  
 ctgatgagcc tcatgaggag cctcacaatc tagttacaaa ggatgtaggt ggtgattcac 180  
 aggggttttcc aggcgggtcc caagatacat caatgttgat gtcatatgtt gatcatgtgg 240  
 tagccaaagt gtggatagga gaggtagtta tttgtttaat taaaacttat ttaaataact 300  
 atttatcatt ntaatttaca tanaataaat ttaattattt ttaaaacaat actgagttga 360  
 agttggcctc tcatgg 376

<210> 30719  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30719

ntatgagaat ccgcattcaa aagcaccatg aatattcaat tatatgattn ttaattatta 60  
 attaataata taattaatta actttntaaa cattatTTTT aatttttttt ttcacaaact 120  
 aaaagagaga taaaagataa tagaaggctc tgagatgaaa gaaacatata cttttaattg 180  
 tggagtaatt ttgaaaaaaa aattgattat tctattactt ttaattgttt gataccattt 240  
 gtcattaaga tctccttcaa taggaacttt cttattttcca accattgaga gattaccctc 300  
 gttggccaat gagaagaaag gcaaaatcaa agtntgtttt tggttttaat accccgtcta 360

gatatggaga cgagaaaaag gtaaaatgat taaaatcacg tcgaaataca attataatta 420  
 caaatctgtt gtctagcaca atct 444

<210> 30720  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30720

agctggtatg ataatggggt acccatcaca tgtggtacta ngtggcggtc gggcgatggt 60  
 gcacaacaag tttttcacat ccacaatgca cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcgcgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccgagcaaa acaacattca gacagcacia 240  
 gctatcacag ccaagcaaaa cagagcaaag gcagaatact ctgctcaaca catcaaccaa 300  
 aatcacatgc tttctcactt aaagaccaca ggtacaattc ctctatcca attcgtaac 360  
 cgttggatcg actccaaat 379

<210> 30721  
 <211> 158  
 <212> DNA  
 <213> Glycine max  
 <400> 30721

actcacttac actgttggtc cttttttctg tgtgtttata atgatattaa tttagctgct 60  
 attttttgag ggaacacacc actatTTTTT gtttgattca ctacccaat atgggtaatt 120  
 gatatatgga ttgttatttg gaactggaat ctttggt 158

<210> 30722  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30722

agcttgtgat tgcatttggg cgtctatttc gactttccta tgctgtctct acatacataa 60  
 aacagcccca ccatcccaat tttgcaaaat catatatcat tggggcattt caccgagcac 120

ttgatgggcg catgtttgga cataaattgc aagagaatgg gggcaatgtg gcatgcccc 180  
 ttgcttcaga atacaacata ngcctaaggc cttctcattc aaataactcaa ctccacaaaa 240  
 caagcatgga ttcagatgca aattgcttca cgaattntac aaaaaatgag caactatagc 300  
 accaaaacac atcaatggag agccaaataa ccaagggaaa ttgcacttac ttgtggggag 360  
 tgatttatag cgt 373

<210> 30723  
 <211> 1072  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30723

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 caaataatag anaccacgt cgnccgntcnt acnacnctc cncncccccc cccaaggatg 120  
 atgcagcagc gttttgcanc nnactagttn gngttgtaga aaactccnta ctctgcgang 180  
 ancatacgtc antancnncg cntgtantcg acancagatc gacgtctacg atngacgata 240  
 ncgacaacat cagcntatta cggagcgacc agaccgatct gtactngtgc gtcgcatttt 300  
 gantcgacat ctgcantgaa ctaagccacg gtccctgngtg acatccatcc atgtancgta 360  
 tatgtacgta ctaagntaca cataactaatg tccgntcgcg ttgataacta cganancgtg 420  
 cgttgctactg catcagactc atacgagcgt cgacntcatc tatctgtcct gtgnganana 480  
 tcgtacactg ctcgatatgc tgctanagtc agtcgatagc tgcagtgatt acgcgtcgaa 540  
 tgtactgtgn gaccngacga gtatgcatgc gngcatgacg cacacatact cctccgctcg 600  
 ctctgntgcn tcantnaagc gtacgcgatg agatcagcta ngacgcantc atcacgcgaa 660  
 tcatagtcgc gcatgcagat cgagcatacg tcgataagtc tcgacacggc tgcgaentat 720  
 cgtgcactac atcgtctatg actgaagtcg gtgtaatcga tgactcatga tatcgcanntn 780  
 ancatataga tgatcggaca cacagntcta cgagtatgtg tatcgtgtca acatgcgtat 840  
 gaacaagtgt caacatgcac nagacgtacg tctccgntgc gatgaatatg gatgactagc 900  
 ctacgtctac gtcactact gtanagtcgt cagccgacac tgctatactc tnatagtgcg 960  
 aagagtatcg catacacgaa cgagtatang cgctgcacgc acncgatccg antgngtcta 1020  
 cngngctcct aacgtgatac gcataccgca gactctggcg cacacgtact cg 1072



<210> 30724  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30724

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 tttatatgtt ggggggttaa agatgtttca gattccatgc tatcttcttt tcagttgcag 120  
 ctttatgcc aatcaagtca ctacttgaat aaaaccaatg ggatgctgag cttcactagc 180  
 gaattgatag gtaaagaata tagaatgtga tactaagtaa aaggtattca aacaaaagga 240  
 taaagaggaa cggcacatag tgggcatttt cctaaataaa gtataaaagc atatgttctg 300  
 aatgttntcc ctcataaaat attattgacc attgcatttc acaatntggt aatacctctg 360  
 ctctctctcc attttctgat cactnttcta c 391

<210> 30725  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30725

gatgccccac atagaacncc natgcgtgna gggtcantct atagaacctg caagctctga 60  
 tgggtgtcgac aagacatcac atgtntgtca tcatcaaaaa tgtggagaat gtgaatgtct 120  
 ccnnncnccc ttttcttcta ttcgtaacata taatactaca atgctgcctc acctgattat 180  
 cactttgctt ccaatactat tttatactgc tccaccaaac aatcctctgt actcacattc 240  
 gctcaaatcc atccttgaca ttcgcaaccc tctttctctc tgacccagtt tccgctttga 300  
 tctoctacaa tctaactctc tactcactcg ctatgtcacc gtcgcgcatt tccggcctct 360  
 gcacctgcy caacctcct cgcctccgctc ttccgatctc gtccggaata aagcccgatc 420  
 ccataacctc ccctatactt atccagtcac aatctcgcta tccttgccgt accacctcac 480  
 ctatcgtctc tccctgtcac cctcc 505

<210> 30726  
 <211> 359

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30726

agctntgatt caaaattctg actcaccata aaccttgacc caaggtgaga atgccaatcc 60  
ttatcctcgg aagcaaaaaa agaggagaag aanatttcca atcaaaggaa aaaggagaag 120  
aaaatttcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180  
aaagaaattc ccaatcaaag agtgggagaa agaaaaaaag aaaagaaagg aaattcccaa 240  
ccaaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300  
tgtgcagaga ggtcttttga ccggacaata tctgaacaat acagaattgt caccaaattg 359

<210> 30727  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30727

gcttatgcgc atatttcctt acaaacgttc tcttgcacaa gacatttatt cgaanaaatg 60  
cacccatata caatcaaggc agcttcgtca tctagattat ttacacgtac ctccaagggtg 120  
tatttgttac ttatatacaca cacatctcct tggctaaatt cacatacatg cataactcaa 180  
gcattttggg gtaccaaaaa ttgcacatgt gcacctcttg gcattttctaa tacctataca 240  
tacgcaaact ttatgatgaa tcttgactat ccacacaata aggtgctaca tttcatgcct 300  
ctttttcaag tttttgctac ctanagccgc atgcanaatc aagcatatct tcctttgctg 360  
actaaaattg tattcaaatt aaaagggtata ntttttgtaa tatgttntct tcacataaca 420  
tngcacatat ntatatatan tttttttttg tgagaacatt tgacta 466

<210> 30728  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30728

agctgactta cactctgagc atanaagtgt gtnttctttt ntagaatgta tatangtgta 60

tggcaattag aatatattaa atgttcttgt atgttgacat gggtaatagg atactttcta 120  
cacatgcgcg tgtgcataaa tggattacat gagtttggtc taaatcagaa gggctagcac 180  
gacatttttg cgtaataata agcattatct tgtaaaacta acttctanat gtttgttctc 240  
gcaggaaatg gccccgagga aacttgcttc anagagatcc angaaggata aagcggccga 300  
aggaactagt tctgctcccg agtatgatag tcaccgcttt aggagcgctg aacaccagca 360  
gcgcttcagg gccatcaggg atggtcattt ctccgggag 399

<210> 30729  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30729

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cacctactgc gctaagcccg gatgctcatt ggaatttgaa acttcaaatt gggcttagcg 120  
tgaggttagg ctaagtgcac gggctttaaa ctcaaagtgc atattggcat gctaagtgcg 180  
ccaaacaaaa atgctaaaat gaattagaac ttccataggt ggttaccttt acacaaaact 240  
tttgcttctt ttgctgagct ctcttctgt gtgtgagcat tatgctgttg tgctcaagt 300  
actttctaca tcttcttgca ttttaattccc atccaagtaa gtagtgcttc atttccattn 360  
tcatactgtg aaacttagga tagacgatgt cttgctttgt tagcttgc 408

<210> 30730  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30730

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catctgctac agacataatg taagagctan aagggccctc tcaagaagtg cagacacctt 120  
gagtttgctc aaaaagagtc tatgaattgc ttatctacat ggatcgatgc ctnttatgga 180  
attgaacaga gtcattttat tcgatatgct aaattcttca ttggtgtaga atcttaaaca 240  
atgcttttct attttttttt gattgttaac aattcacgta atctcttttt gaacaaattg 300

caccctaatt tct

313

<210> 30731  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30731

ggcacacctt acggataana tacctattgt gntaaatcca catagttata tcaagtatct 60  
aaatctgacc cattaagccc atgaacctag gtggctttgc gaataacaaa cttctcttta 120  
ttaagatcca tatatttgta ttgagtttta gggctcgacc cgtgaactta gtaaaacttta 180  
tccatgaact cgtgaagtat ccatngaate cgcctaatat gtgtaagtat ttataatttg 240  
gtatgttaaa gttatgggtca atntacattg tgattgctaa tttgtagtgt ataaaatatt 300  
aatatgattt agtgtgatag atcttagctt agaaaatgat ttcatttggt tcttcaaatt 360  
ttatatatat tcaactttttt tttaaaaata acttataata aatactttgt tttcaatata 420  
tcatgtgtca gggcgggtcca tgtatttgcg ggctttacga atcagatatg aattcttaga 480  
aaaagtcta 489

<210> 30732  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30732

agcttgngta ttaatcctaa ccttgcatgt gggctttttt ccacttacgg gagccgccga 60  
tgggcccggt gctactgcct ctgagttctt tgccttctg ttgcaccatc tcccacgcct 120  
tgtggacctt ctgaagtgcc tccacgttgg tcttattgaa gcctcgtgca atatcaggtg 180  
tgagctttta ctctagtggg gctcctctca tagggtagcc aagctgtctt atagcaagaa 240  
cgggattgta actgatgcaa ccccttgtcc ccatcaaggg aacatatgga aatcttccgc 300  
acgaaataaa agtcctgggt cttccttctt tcatcgaggg aaccagtcac agacactcct 360  
tc 362

<210> 30733

<211> 174  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30733  
  
 attactacac tcgattaaca cgtcttacct atcnatgttc caatcataat gtttctcggt 60  
 gcatccaacg ttcgtctgta acagtcaacg tttaaattcg ggcttggcga tctaacttat 120  
 gggattggac ataaatggac aactaaatct gtgaattaca ttaacaggga ctta 174

<210> 30734  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30734  
  
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 gtcagtcttg tggcatatca nattgcatta cctccgtgtc tttctaacct ccacaatgtc 120  
 tttcacatgt ctcatctcca taaatatatc catgatccat ctcacatggg cgaattagat 180  
 gaagttcaag tgaaggagaa cttgacatat gaaacatttg ctttgaggat cgaggatagg 240  
 cagacaaagc acttaagaac gaaagagatt ttatttgtca aggcagtctg gggagggtgt 300  
 ttacgatagg aggcaatttg ggaactagag attcaaagtc gagaagccta tctgtcttg 360  
 tctg 364

<210> 30735  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30735  
  
 gccctgaact gtgacctgan ctacacctag aacgcgaagg ggntcaaaaa ttgttaaatt 60  
 tcgacccgga ggatcgtaaa tcaacgcggc cctgtggcaa tatgaatctc tggggcgtag 120  
 actgatttat acgttgagag gaccgatgaa tctgacttag cagtaacctt attgttgcc 180  
 ctagttgaaa atgcaagtgt tgatggactt atcatcgtgg ttgacgttct cttaaaaaat 240  
 ctgataagcg agagagttaa atgcttgggt tgagctcagc gagttagtgt gcgtgggaaa 300

cg

302

<210> 30736  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30736

tgcttgagtg tgtagatgat gcaagtgact gagacaaaga ggatgagaaa gacaagaagt 60  
tctggtaatg ttgggtgcta tgggtgcaatg ggagtggcag ttgtggagag gtgtggcgac 120  
agagatctca cgtgacattt tgggaaccct agaggtaaga atagagaaaa acatttnata 180  
accaagaatt taaagcgcca gagaatataa agtgggagct acatattgaa caaagagaag 240  
aacattctaa gacgggtttt acaaaaccgt cttggaatga cagtcttcta aaacgatgtt 300  
cacaaaactg tctctgttga anaatccata tntacaaaga tgtcactgtc ttatatacta 360

<210> 30737  
<211> 187  
<212> DNA  
<213> Glycine max

<400> 30737

cctacttact tatactaacc caatcgcagc attaagcccc agttgttctg aaatgaagag 60  
gcactccccg tatatagtaa gtaccatccc ggtttcacct ttctagctgc cgttctctta 120  
cactttacag ctacgaaatc accttcaatc tactaaatta taccattttc tataaccatta 180  
gtcgtca 187

<210> 30738  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30738

tgcttggtta ttatgtaata tgaatttcga catactatga aagaaggttc tgaattctga 60  
tgatacccat aatcttgta ggtgcccgtc actgtcagaa tatatatcct tatgggtgcat 120  
taagttaatc tttcattatt tcaacttcaa tgtaaacagt gttattatca cgatgagaag 180

gtgcgattat ntcgatatcc tgatcgtttc tttagtttaa gatataat tttt ttgttgatat 240  
 aacttaatt tgggtcanaa caagttat ttt ataataaac aattatataa aaaaactaac 300  
 tgatagatta tcatt 315

<210> 30739  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30739

tatagattat ctagttgcc a ctcacgaac catttctgtg tcacttgac acaaagagaa 60  
 ngtagtcttt attctttggt gtatccttct attatccttg ctaattgtta tgggaatctc 120  
 tttctaccta ggcaactatg tgctgatcac aatatacata ttattgtaat gctcttaacg 180  
 tattatcaat cccagcaatg gaacaaagct caagcgtgct gtaaaatggt ggtcatcaag 240  
 atatgggaca acttcaagac gttctgtgaa aggaatatct ctcctttaac tgctggaatg 300  
 tgacatgtga ttaagcaaag aactacagtc tgtgtctatg aggtaaaaat cagtcttgcc 360  
 tcctttga 368

<210> 30740  
 <211> 767  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30740

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 nttttacctc cccaccccn cccnccaacg agagcgcgca gttggagaac anctagntag 120  
 agcactcctc tacgtactgt gcanactgan acatatgatc gtcaaacanc tgntgtaggg 180  
 actatctnca gctaatacgc tgatatctnc aatcatatgt gtatcatcac atctgtcgna 240  
 ctatatacgc ctgtaaatgt ctgccgatca gcanggtact gagtattact tatctcagtc 300  
 tagcaanact cgcgacgcgc tcagatacga cacaaccgc atcaatacag ttgagactac 360  
 cgtcgtcagt cgacntaatc attatcgtgc tgacattcgt ctgcgacgta aaaactcact 420  
 cacggatagg cgcacgcacg aagtgcact caaggatcga acagaatgcc aaccagatat 480

ctcgatacac gacatgcatg tactcgccgc aaactaactg acgagacgaa gatcgtatac 540  
cagatctgat gaagctgcga cggcgaaact ccattgacca gactcgcnac tacaggcggg 600  
cgataatcgg tcgcgggacc attctgtagg gcgcaacaac aacgacgatg cgtntttctca 660  
ctgagtgcga gaagacanac aaatcgtaca tacgtgaggg cgaactacgt ccgtcgacga 720  
gtacatccgc atggagctta atcacctcgc ctagaactaa tccatcg 767

<210> 30741  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30741

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aattaagaat gagaaatccc atagagaaaa atgtccgatt gattttccgc tctattttac 120  
taaaagatga tttttttatt attatattat cttataacctc tttttgatta ccaatgtgat 180  
tacttgacga ccgaacggtc gtaatttatt ttaaccgaag ttaacggata atacaattca 240  
actttcggtg gatatttttt tattnttaag tcaagcgaga aatgacttaa gctaaatggc 300  
tt 302

<210> 30742  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30742

gttgcatcgg aattgcgaaa gcccactcc atcttttagga tntgtttctg ccatctcana 60  
caaacaaatc agacgtaaca agacaattat agttgctgtt tgaataacctc actcactcaa 120  
gtgtatcaca caattatggt ttttctctaa tgaaacactc ttgcctttta ccaactotaat 180  
tccccttgag ttcttatgca attcaagaga ttatggccac aacagagaac aattcaccaa 240  
tatgtgtaag gtaaggctag agaaacancg aaaagggttaa ccaagaaaaa ggctaacaat 300  
gttttttaggc acaaatgaac gaaacaaatt tcagacttta tgaattcaag taacaatcct 360  
tcatgcaacc aatata 376



<210> 30743  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30743

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 aattganatt ggagaatgca agattgacaa tgggaatgag aatgtgaaaa ttatgtgcaa 120  
 attgcttcct atgtgaccaa tttataggac ccaattntaa aaaagtttaa tgtaaaaaaa 180  
 atataaaaaa ttaaaacata acatgcatcc aaaattcaca gagcaattgt caattgtatg 240  
 caacgttcta aaattcatag agtaacggtc aattgtggca aattgtcttt cttttctgca 300  
 ttctttctct ttnttctttc tttctttctc ttcttcccc ttocaaaacc cacctcctat 360  
 tgccctatct tctcttctct tctttctt 388

<210> 30744  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30744

ntanagcaca acatcacaga atctaggtgt ccaacacccc tcaattaatg ggtnntctaa 60  
 gtttgtgaag tgaaattgag aatgaggtaa atttgagca aactctcacc tcacacaagt 120  
 ctataacatc aatctaaact tgctcaaact ggatntacac ctaaaattcc accgaatcaa 180  
 aatttgactc ctcaacaccc aattttgccc tagaaatggc tcttggttca ctttggtcat 240  
 ttgtttttcc ctctagcaca gcctaacctt tctcataagt cctaaatggc atttcaagct 300  
 aagattaatt cactctaacc tctacatact accaattcca gaattggcct tccagcccct 360  
 caaatcact ctntntcact cataacacca catnttactt tctaagccta ggttattcta 420  
 cattcctctt acagtttcc 439

<210> 30745  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30745

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gtctaggttaa atcttttcag aaagacttct aacacaataa gaaaagaaca gtttttcata 120
attaccttat acaccagcta atgatagaag ctctttcata ttagtttttt tcaaaagata 180
tttgtaaatt atgtataaac taacattaac ttatagaaca gtttatctaa tttttttctt 240
tttattctct ttttttagta gtacttctaa atacatttat ccaaatagac ccttaatat 300
aatatatatc aacaatactt acatccaaat tattacttag tcaaggcttg aaattattta 360
tataaaataa ccagattaat ta 382
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<210> 30746  
 <211> 645  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30746

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aggatacgca ggtgatgcgg acacngctgc gtcgtcgtcg tacacatctc gggcgggang 60
antcgtgccc cactcagcat gagagatggt ggangccatg ggaacagccg ccatgtgcac 120
gatatcactc agcgggtatta cgcaacgcgc cgatacaaac atcgacacga cgngtctgta 180
cggtcgtgtg tctcagcgca aggcggttgg atatgtggac gtgtccatca cttatcaaga 240
gtgatctctc tgtcgggtgca gaactatcag tgtcaggtaa taacacgagc agagtacata 300
cttgggcgtga actagtactg gacggtaata cagcgggcga gacgattgtg cagtgtctat 360
ggccgcggac tcacatgtcc gcacgaaaac ggatgcgacg gttcgagtcg cgcgcatgct 420
cctgagcatc agatcagccc acagcatcac tggcatacat cgcgtggagg ctatcgcgcg 480
acgcttgaca atgtcgagcg ctcacacgcg aggtccgaac aagtacgact accgcgcgct 540
ctctcaacag cgctccacgg acgcaccgag cagaaatcgt tcgcgagaga tcggccggct 600
gaagttagtc ggcggactat ctcgtggcca ttcacgaatg gaacg 645
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<210> 30747  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30747

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tttccgccat caccactcgg gaaccgtcgg ggcttgaag gggttaatgc gtcgggtggcg 120  
gaaatatgaa tgcggcgctg ttttaaggtag ttcgagtttg gcgcacctgc agtgtgtgaa 180  
tgtacatgaa ctgcttggtt ttttgtttac gtcttcggag cagagaaaca actccaaaag 240  
tcacgatgat cgggcatagg tgggtgcaacg tgtgaccggg cccaaattgt tgtgccgcaa 300  
cacctgcgtt g 311

<210> 30748  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30748

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ctnccccatg aaatcctcac ataaatatca ttctgtacat ctcaattaca aaggttgtgt 120  
cggagaataa taaaactaag atcaaaccga taaggcatca ctaattacat gtggttgaac 180  
aatagagttc tcacacgcac tcaactgtcac tctatgtgag agaataacag aagatgatga 240  
ccaaattgat tgagagaaaa tagaggggac ttaaaatttg aaaaaaaact tctgcattct 300  
catgcacact cttgcacact cttcgtttca ttgatgatca ttagtatttt tatccacact 360  
gcatatgtag ctattat 377

<210> 30749  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30749

cggaaggatc anagcgggtc tgannagagg caaatTTaat catcccactt ggacgaatga 60  
gaaaactggg gcaaatggag aggggtgagaa taaggagagaa gcccatgtta tgactgccat 120  
tcctgtacgg ccaagtttcc catcaaccga acaatgtcat tactcaacca ataacaaacc 180

ttctccttac ctactgccat tntatccaca aaggccatcc ctaaaatcaa ccacaaagcc 240  
 tacctaccgc acttccaatg acaaacacca ccttttagcac aaaccaaaaa caccaacca 300  
 gaagtgaatt ttgcagcgag aaagcctgta gaattcacc ccattccagt gtcctatgct 360  
 gacttgctcc cacatctact tgataatt 388

<210> 30750  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30750

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 gtaactttta tgaatgagaa acttgtgaga tacacttcaa agttccactt ctctcccttt 120  
 ctctcttcaa ttttccatgc cactttctcc ctctctcatt ctctctctct tagagggtgaa 180  
 gcttctcctt ccattgctta ttctctagtg gatgacacat cctctctcct ctctctcttt 240  
 atcttccgct gaaactccat gcgtgaaaat cactattgaa ggaccttatt gaagctcaaa 300  
 gatccagctt ccatagaagc ttctcaagag agcttncatg aagtggatc agatgacaag 360  
 agtttcaagt aggtgctcct taaacctcca ttttaattca actttacctt ctctacatt 420  
 ggtggttctt cattatctcc at 442

<210> 30751  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30751

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 actaaaatta attctccatt aactaaatat taattaattt atagatatca tatcatctat 120  
 gagagaaatt atactaaaga ggctcttata ctcttttggg ggggttattt gctctatcta 180  
 gctcttggtt tctatatctt tgcaaatacc ttctcaatgg ctctgcatag tcgtcaaaac 240  
 caagcgaccc caaggccag catatgtcat ccccggtcac tgtcttactc ctttccttcc 300  
 tgcacttctc cgacgctcg ctggttacia agcttatgaa ctccgacacg cactcttgca 360

<210> 30752  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30752

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 aanatgaata attactttct tttacttcct ttattatttc tgtcacttga ttccataatt 120  
 atgcatgtta attgataggg acttgggtat taaaggggtgc ccaagtccca catagagtag 180  
 tatttaagtg cttgggttctc ccccttaac aactagcttt taaaggtggg ttcaccaagt 240  
 gcttgggtgc ttacattaat aatcctttca ccttttactc cctccattcc aaattgattg 300  
 atgttttaggc attaaataat ccaatatatt actattcttt caagtatcaa atccaatgag 360  
 atataaaaca tctatccttt atgcctctat aata 394

<210> 30753  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30753

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 ttacagatgt taatggtact gctggctccc ggacctgagg gatatctgtc tctgggacct 180  
 gaggggaacaa ctctggatgc gtagcataac catctggcan aggatctgat ggctgggtccg 240  
 atgtcatgaa tggatgcgaa atgcggaaga actagtccat gtagtcgttg gcacactgna 300  
 cctgcacaac gcacatctca cctgctgcaa tcatatggtc cgaatagtgc atcccacctg 360  
 tgtgtatatc atcanacgac acccatgaat cgat 394

<210> 30754  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30754

cagcttgc at aactagagcc atcaaccaac tccagtgaca agaccatcgt taatttaatt 60  
catcatgata aacattatac aaaagccatt cttgtgggtg ctactagttt gtttcactac 120  
atgcatgtat tttgtattgt tttaacactt atgttagatt gtttcattat ttgtttattc 180  
tgaagttgga tttatattgc cattcattga gaatatatat tttatttttaaaaataaaatg 240  
gtacaaaatg attgacaact gatacaaaat agaaatacat ttctttgtgc ttttgtgatc 300  
aacaanaca tgtttccatg taaaggcatt tttgtaaaaa atacctanag cataacggta 360  
tactcggcaa agagaggagg tggttcaaca attntgtgtc ttgggttttc tttttt 416

<210> 30755  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 30755

agcttcattt aatccatgcc gacatctgtg gtcccathtt gcctccctca cacagcaaca 60  
aaaggtacgt tctaagcttt attgatgatt attcacgtaa agcttggatc tactttttgc 120  
atgaaaaatc tgaacaaat actgtgtaca aaagcttcaa agcctgtgtt gaaaaggaag 180  
ctggtatcta aattgtttgt ctaagataag atagagggtg tgaattcacc tctaaagagt 240  
gtacagaatt atgcactaat caatgtatct ctaggcaatt gacgggtgcc tacacccac 300  
aacagaaagg agtcgccgaa cgcacacacc gaactatcat gaatgttgta cgagctgtat 360  
taca 364

<210> 30756  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30756

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agatttgaca aagctgtatg caacgggaac aattttgttc ctaatgaaat ctctctaacc 120  
aagcccaaga tagaggccta tctaagattc tactcatgaa tcacagcgt gatgtgaca 180  
agattatttg gcatgagggt gtctatctct aaactgggtg ggatcagtgc actatactct 240

cacttcaa ataatgactgat tgtccatcga ctgcggagac cttattgaac cacctgagat 300  
 tgcgacatgc tggattgacc cggaagagtc aatgcgggtcc cagattattc tfgctatgta 360  
 ttcactactc tatgagatgc gcccttgtc aaaaattggt aaaccctatt agagggaaca 420  
 accgagaacc tctctgtgaa cgagaatata tttcttaagg gccggaagg tttct 475

<210> 30757  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30757

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 agatacaaaa tgcccaaggc atttgtcggg gaattcgagg ggagtaaaca ccagacaaat 180  
 ttacaccaat gagccatgag caaccacata aggaattta acaccacact ttaacccaaa 240  
 accttaaggc tcaagtttat gggcttctc cttacttata tgggtgctcaa cttttcaact 300  
 tccatcctat gtgtgctcaa cttttatggg agcaaaaaga gaagctccat gctttgtcat 360  
 ccagtcaaca cagtcaatgg ggattcatct tcata 395

<210> 30758  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30758

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 cagtttaaga tctcttatag ctgtcagaag gtctcttaat gagctcattt catactgtgt 120  
 gcaagaagag gatagactga agcacgaaag gactaaaagt gctcatgtag taagtacttc 180  
 taataaccag ggccaaagag aaaggactga cgagcccaag aatgaaacta ccaatgggtcc 240  
 aacacaaaag aaacaaaatc aatgtgacaa ctgggttcttt tgtagtagcg ctgacattgt 300  
 aagaagaaat gtccaaatat cattc 325

<210> 30759

<211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30759

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 ccatcatatc tcccagaacc caataccac aataatttat gtgagaagaa gtctacccaa 120  
 acctgaaatt tgaagtccca caacgtagag gtgcgcttca cgactccgaa aatggcttcc 180  
 ttttgcgatt tggagcagat atggtgagta aagtttggag ctttgatgga ggcttcagga 240  
 gaggaagaaa gggagaaaaa gcaacgtgag ggagagggaa tagcttctga acttttggct 300  
 gagtgaagag agatgaacgt ggcttttagt ataataaggc ttcctttntt tattttttta 360  
 caagggtatg ccacatgtct ccttttgagt 390

<210> 30760  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30760

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 atagtcacgc tctggctata caacttttaa tgtgaatatt aagggatagg gctattttct 120  
 aatcctgctg cggagattat gactctcgcg tacatatgag aagtcaaact cacgggtttt 180  
 ttatatgtgt ctggcgacag actcaatgca tatgtccaac agagctaagg tcctccattg 240  
 gatggggaac aatcaaggct aacacgagct ctgtttatgc gtgttttact cgggtgcgaat 300  
 actactgacc gcggacttga ttcttgcacg gaccactgtt acactgacca ggcttagtag 360  
 ctgctctgag ggcagatttg aaggcggcta agtttaagta ctaatgaagc gcttatgtaa 420  
 ccccgcgca taaaaatttc tctggcgctc ggggtgggta taccgattaa cgggtttggc 480  
 accatggaca tgcac 495

<210> 30761  
 <211> 335  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 30761

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tgcagttcca ccttttctca tatcattttg catgtttttg tttctttggt cttgcttggt 180  
atagatatga gggtcgattc tttgaggatc ctaacaacga gggtttgaca atcgattntg 240  
atagagatat aagccaaacg ataaacgagg aagaggaaga ggacgtcctg tcaccagagt 300  
tggagagggtt ggtcgctcac gatgaaacgt gaatg 335

<210> 30762  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30762

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cgaggcgctt tcgtaacgtt tccgtgagta attacgcgaa gattctcgac cgttcttcaa 180  
ggtccatcgc tcgttcttcg ttttcttcag tcttcaacgg gtaagtacct ccaaccagct 240  
tttcatttca ttctatgtac ccgtgggtggg gcacattctg tttcatgtat tagtattccc 300  
gttctcattt gctttatata ccccc 325

<210> 30763  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 30763

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tctccccctt tggcatcaac ataaagccaa agtgtgtata gagacataaa atcatacaca 120  
aactcataat catccaagca ttttaatcca tacaacaagc aaggaggaca ataattcata 180  
cataaactaa gcaaggaaga taataattca tccattaact ataataaagc gtcaaataat 240  
tagaaagtca tccaagataa ccgaaataaa aagactaatt tagagagtaa tataactaata 300

agtgtatcaa atatgtcata agacatcaac acatataaca aatcacttgt ctaagtcact 360  
agcatctaga agttctaatt ctcttctaa 389

<210> 30764  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 30764  
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cttgcccttc atcggagata agatgaaagc aaacatagga cactgatctc gtccgtcctg 120  
ccgttcccgc gatgacgact caccggctcta ttccttcggt tttcttctgc atacaacaaa 180  
atacgaacta caacgagaac aacgactatt atgtacatat acacatatac acatatccgg 240  
cgaaggaacc gaaccagaaa acaccagaat tacgggtttc ccagtcacca gaagcttcgc 300  
gcttgacaat ggaggacaca tgaatag 327

<210> 30765  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30765  
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atttgatttc aagattcaag aatcaagttt caagaatcaa gaatcaagaa taatcaagtt 180  
gaagattcaa gaatcaagaa aagactcaat caagataagt actaaatfff tttttcataa 240  
cattgagtag cacatgaagt nttcacataa gctttttacca aagagttttt actgtctggt 300  
aatcgattac cagnttactg taatcgatta ccagtagcan aagttgttnt caaaagcttt 360  
cagattgaat ttacaac 377

<210> 30766  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 30766

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tctcatgagt caaagtgcc aaggtagcaa gtttattttac acatgagttt tcctctctat 180  
aaacatgtga gtaacaaaaa actatatttt tacaaaaaan aataaacatt ttcccattta 240  
ctatggagac attaaggaac caacaaagga ttgctgaaag cctgaatgac caatgaagag 300  
tcacattcaa tccacaaatt attccagcct ttgcacttca ctacttctaa ggtgatgcct 360  
acaccttagc aaaaaaattt gtttaacccc tata 394

<210> 30767

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30767

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gaactttgag ttgtgtctca caagactctc attcatcana gttacaacta gtgttacaca 120  
tgcttctatt tatagactan gtagcttcct tgacaagctn tcttgagaaa acttccttga 180  
gaagcttctt tgagaaaact tccttgagaa gctagagctt agctacacac acccctctta 240  
taactaagct cacctccttg agaagcttcc ttaagaagat tcctaaacaa gttagagctt 300  
agctacacat acctctctaa tagctaagct cacctncttg agatga 346

<210> 30768

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30768

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atggccacga ggaagcttgc ctcaaagagg tccacgaaag acaaggcggc cgaatgaact 180  
cattccgctc cggagtagca cagtcaccgc tttaggagcg ctgtacacca gcaactgctt 240

caagccatca aaggatgggt cgttctccag gagcgacgag tccagctcaa ggacgacgaa 300  
 tatactgatt ttcaggagga aataaggcgc ccgcggtggg catcactggg tactcctatc 360  
 gccaagttaa tacagatata gtcctttgag tttatgccaa tgccttggcc acagaaggcg 420  
 tgcgtgacat gatatcctgc gttacggggtc agtggatccc gttcaag 467

<210> 30769  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30769

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 ttcttcattt cgggcccatt ttgtttctcg ctctaacgct tcaactgtgg tcatgttgat 180  
 atccttcaat tcatcacact cttttttgac cctagtgact ttcgtcttca gcttctcttt 240  
 caccactctt gtctttttga gttgtacttt caaagcttgc acttcttcac tttccttagg 300  
 aatttcagcc tttntccac ttagacattn tagctntggg agccaagtca tcccttgctg 360  
 tctagacttc aaccacttgt gata 384

<210> 30770  
 <211> 557  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30770

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 atgcgtatct tgaaccatat atttgtacta ctccgcgga tctattgaac tattgaatag 180  
 aattcagtgc tcggctgctg aatcactcga taattcggcg taaagaacgc cgcgtgctcg 240  
 ttatatattc agatgtaaga ctgaactggc cagagtgttg aagacttctc ggtcgtcctc 300  
 gcgcacgcac atgtcgggac tcataaatgc tgggttgaga tctctcgac ttattaaaat 360  
 atgtctacgt cgagcatgcc taatatctcg tagccaatag cacggtgaaa agacatgcgg 420

cgctcagagg acgcgcacat agtgagcgtc tattctggta gtatattata cgtgctgcat 480  
 atcggcacat aaatgtaata gagaccagtg gcgcagtcgg accggcacaa gtactcggca 540  
 tgatttggcg tcaaacg 557

<210> 30771  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 30771  
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 tagccgcttg ctcaagggtcc aaaaggaact tgactcaacg tttatgagag atagagacca 120  
 gcatgttagc tatcatcacc aagtaccaag aagaactaag tctagccacg gccacaagc 180  
 atatggtggc ggacgagtat gccaagtct acgcggaaaa agaggctaga ggaaggggtga 240  
 tcgactcggt acaccaagag gaaaccatgt ggatggaccg atttgctctt accttgaacg 300  
 ggagtcaaga acttccccga 320

<210> 30772  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30772  
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 ctggtcatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta gatcaacca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca ttttgggtac tcgggagaat nttcacagca 300  
 ttcacccttc aggtgtgcac acattttttt ttcaacaact agctatgatc 350

<210> 30773  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30773

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gaccatcaaa cctgtccata atctttgaaa gaagagatga atcttctcct tcatgtcctt 180  
cttcaccaac atttctagca cccttcttca cccaagagcc atcatgctcc tttacataac 240  
caaaggatgc tatgactgaa gtgcctataa ggaatgatct cttgattgga acacaagggt 300  
cagaatcaag agggatattg aagtgttgaa ggaaaagggt aacaagatga ggataaggca 360  
atgggtcatt caatcgcaat gccttatgca tgcgatatct aac 403

<210> 30774

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30774

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atgtacaaca tcggttatca atacaaaacc gatgttaact aaatgatgtt aacattaaca 120  
tcggttttct acaacaaacc gatgttaacc tatcttatgt taacatcggg tnttctaana 180  
atcgatgtta acatactgac tttaacatcg gttattcaaa aaccgatgtt accagtttca 240  
tgttaacatc ggttttttaa caactgatgt taacataagc taattaacat cggtttttcta 300  
aaaaaccgat gttaacaaat tcacattaat tacaattatg ccaccatgtt aacgttaaca 360  
tcggnnttga ggaaaaccga tggttaaact acgatgttaa at 402

<210> 30775

<211> 314

<212> DNA

<213> Glycine max

<400> 30775

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gttatactca aggttttgc atttgagtg cgttggagat ctttcttacc ttgcttattt 120  
tatcaggggc ttcggtccaga aagatgggtgc taccatctgc attcatggca cagaggataa 180  
agtactgggg ttgaaagcca aatatgagga cgttgcatgg ggattttaga gcaactgagat 240

cagagagaac tttgattctt tctcagtcag ggcggggcga tgtatggagt atttataggc 300  
 tgatctgagg attc 314

<210> 30776  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 30776  
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 ttcttgagac ctatatgtcg gcaattgcc a gctgagaaac acacgctcac acacattaaa 120  
 acatctactc cctcccatcat accaaccag ttatgtgagc catcattaac tttacttatg 180  
 atgattatca ttataaatac ataaatatta taaaacagag aaaactgcct ggataccagt 240  
 tcttcttgat tcttgagagt ggttggtgat ataggctagc aacaactctt ggaaaatgca 300  
 tggcattctt catagagaga caat 324

<210> 30777  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30777  
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 gtaaaaaact ccgatttaat aatacccact gcatgtaaag ggtggtgaag ttggcaatcc 120  
 tatcttttat caatgatngc aaggatatcc ttatacttcc cttcattgnt attgaaagct 180  
 ctttgaattg attctttggc ctatocattg cttcataaat gaaaccatt gcaggttntt 240  
 ttttcattat ccaccaacct caacacactt acaagaggcc ccatagcctt taaagcataa 300  
 acaacatcat tccanaatga tggcgtaaga atacatatgt ggcttgcttc cccttgggct 360  
 ctttagctgc cttagacttc aaccattcat ctga 394

<210> 30778  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 30778

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ttaatgctgt ggggtgcttg aatcatgaaa tatcattgga ctttagttct atgttgcaaa 180  
agaatgaaac tacatcaatt tgaattttga tctaagacct tgctcagttt ttatttaaatt 240  
cttgagatg aattgttagt aatcttagtc aattttttacg ttttctgtgt ctctagatcc 300  
cgtggaatg tttttggaat tgctgagcac tctccaatg ttaatcattt tcgtactctt 360  
ttctaaacac tatgtgattt ttatatgtat cactacttcc tatattatac agtttttata 420  
ttgatacacc atgca 435

<210> 30779

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30779

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atgctactct tanaacanaa atggcataca acctcctcca ataaacacaa acatcaatgt 120  
aaatntagag caaactcatg cacatacttc cttatgaaca ttcactcgca caagatatct 180  
ttctatctaa gaaaaatgca cccatgcaca atcaaggcac cttcattacc tagattatnt 240  
atatgtactt ncaaggtgta tntgctacct acatcacatg cacttncttg gctaaatnta 300  
catacatgta tactcaaagc attttggtta ccanaaattg cacacgtgca cattctggta 360  
tttccaatac ctatgcatat acaaactntg tgatgaatct tggctatcta ca 412

<210> 30780

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30780

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ctttgccgtc aattaaccta aagcacaact tgatttatgg ctttgaactt tgaaaattga 120



ataaaatcca ataaacttat atttcgattc taacaaacta acatttacia ttttaaaaaa 180  
taggtttctaa ccgcacaaat ggaaaagttg ttcaattcat ggcattcttct tatctaaact 240  
caagtttttg ccgtcattaa cctgaggcac aacttgatta ggactatgaa ctgtgaaaat 300  
gaatccaccc aattacttat a 321

<210> 30781  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 30781

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tttgatgaat gagagtcttg tgagacacac ttcatagttc cacttctctc cctcttttat 120  
tccttcaatt tcgtgctccc cctctctctt ttctctccct ctttcttttc ctccattgaa 180  
gcattccttc aagcttctta tccaaggctc atcttgggtg tgaagctcct tcttccatgg 240  
cttattccct agtggatggc acctccgctc acctcttctc ctttgacttc cgctgcattc 300  
ccatggtaga aaatcaccat taaaggacct cattgaagct catagatcca gcctccatag 360  
aagccccaca agtaagcttc catcataagt gcactgacct t 401

<210> 30782  
<211> 203  
<212> DNA  
<213> Glycine max

<400> 30782

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gttggttgatt atgatattaa ttgtttacct ctattttgat tgccaacgtg gttacggcac 180  
gaccgatcgg tctgattttt tta 203

<210> 30783  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30783

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 acatttgagt cacgttgacg ggcggagata ccctagtggg tatccgtata aacattcttt 120  
 nttgctgtct gtaaaacgaa aagcctgata gcatgcagag actaacgtcg tcttctgcgc 180  
 ccatcgtaaa tcgcggccga caagcccggtt gacacgcaga gatttacgtc attttccgcg 240  
 ctcacaagat ctgtcatact gacattngag tcatgctgac ggacggaaat acccaagtgg 300  
 atatccgtat aaacattctt tnttgctgtc tgtaagacga aatgcctgat agcacgcaga 360  
 gactaacatc gtct 374

<210> 30784  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30784

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 ctccgggagc gacgcgtcca gctcanggac gacgagtata ctgatttcca cgaagaaata 120  
 tggcgccggc ggtgggcacc actgggttact tccatggcca agtttgatcc agaaatagtc 180  
 cttgagtttt atgccaatgc ttggccaaca gaggagggcg tgcgtgacat gag 233

<210> 30785  
 <211> 591  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30785

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 ananaggcna aancacacgg gaacccgcgg aaacgacaca gagcgcacgg aggcaagcgt 180  
 tgctgancga cgaaggaaca ccgccacaaa gggacgaacn gcagcaacaa gacaagacct 240  
 accgcgaaan ccacaacaga acgacacacg gggccaaacc aggacacgga cgaacgaaga 300  
 anganagcgc cggagaacgg agacggcgga agcgacanaa cagacgcaca cagacaccgg 360  
 gcgagacacc acgaaaccga agcgagagcc ggccgacggc aagcgaaacg agagacaggc 420

accgaaaggg acacgacaaa acgaagaaga agcgaaggca acaacaagca ccggaacaa 480  
acgacgagag agacaagacg cccagggcgg gagcggaacg caggcaaagc aaggcgagca 540  
cggaaccac ggaaggaccg gaaacaagag caaacggag cgaacgacga c 591

<210> 30786  
<211> 223  
<212> DNA  
<213> Glycine max

<400> 30786

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tttatgtatt atgccccga atgcctttc tgtgacatgt atgaccattt gtattctcga 180  
aagcatcgat ggtcattatg agcctcttga gcattatgcc cat 223

<210> 30787  
<211> 202  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30787

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gatttttagc agatttaaga ttctatttag tgttttataa acctatgtaa agagtctatg 120  
tcaatgccca cttttttttt taatttctct ttgttccta catctctttc cttttggatt 180  
tttttgggtg gggggggggg gg 202

<210> 30788  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 30788

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attgtttaca aatgttggtt gcttttgcac ttttgccgtt atgcttatat tatattttgg 120  
ctcttcttgt ccctttagtt gaaatatcat gacactggaa gagagaaaga atacttgcca 180

caagttgggtc agtgggaatat gatgaacaac gtcagctaag aatgaacaaa taatgttttag 240  
 atgtaattat tttattgaaa gataagaaaa gggaaaatta cttgtttcca acttactcta 300  
 attctgggaa atctaatagca gaaagtataa atggaagtac tgtaagatat tgggcatgta 360  
 tcaactttctc 370

<210> 30789  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30789

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 attnttagcc taagattccc ttttttatta tgcattgtgat gggcaatctc ctgagctatt 180  
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 ctatcaaaat gaggttgaat gcgattaaca agcacttcag agataatttt gagatcgaca 300  
 ttgcataact gatgggccta aactctttta aggaagaagg gcaatccact ttggggatag 360  
 ttacaataag agtttcaacc aaacttggat tgatggagcc taaag 405

<210> 30790  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30790

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 aaaacatcaa gatataatca tattccctta cggcaattaa tctcttggtt atcaagagag 180  
 tttagctcaa ttagttgaat aaaatgatgt gttgttgatga atccttagta cctatcgttt 240  
 gattgctaca aattaaaaaa acaaatctct cgtctaaagg tttctgttgt ggtgatccat 300  
 gtgcgagttt ggtcaaagct atttatgaca gccatcggag taaaggccac atttactggg 360  
 ttcatgtgct gatggaatcc catcaggtgg tagatcgatc ttatggcaaa tcatgggtta 420

aacttttagag tcttcatatc atggtgccta tat 453

<210> 30791  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30791

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 tgagctatat gttggatcca ttatcatact atattataat ttcgccaagc ttgatgatgg 180  
 ggataaaacc catttgagca ttaaaatagc tgacacttag tgagttccca tacatttcct 240  
 ttttaccatt ntgcattgat cattattgag gtatatgtta gacacgtaca ttatcataat 300  
 ataataataa tcaagaaaaa caatagacat catgtattga aatacctcat gatcaaatnt 360  
 anatggaact tacact 376

<210> 30792  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30792

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 acaaaggaaa tgtatggaaa ctactangt gccagctatt cttgtgctca catggggttc 120  
 tgcctcatca ttaagcttag cctagtccaa atcaaatac ttcggggttg gatctttata 180  
 ccacaacaca ttattggcct tgatgtccct atgaacaatc ttcattgttg actcttcacg 240  
 aaagtagcca aacctatagc gataccaaca cgaaatctat gct 283

<210> 30793  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30793

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cgatgaagaa gatgcccgtc taggcctct actgcccctc aaggatccgg cccccatga 180  
attgcccctt ccaaacatag tccgccatgt cccatctcca cccgcacccg ttaaagaatc 240  
tgttcccttt gcaaaaagata gggaaagatt gatttacttg aagagaggct gagggcggta 300  
gaaggcctcg acaactaccc gttctcgat ntggcgatc tgtgtctggt acctgacatc 360  
gtcatccctc ccaag 375

<210> 30794  
<211> 810  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30794

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ngccattgat aganacgtac aaccnaccga cgatcgacag cantactat aaaacgatgc 180  
gatcgagacg tcactacgta tatgtgtcac acaacgcata tcactaccca taagaacgca 240  
ganagcgacg cactatatga gacagcgagc ttatgaatat catcagcnga gcagtacgca 300  
ctcactnct gagcancctc nnatgtagac ggcatgatat acatcgacgc acatgaatga 360  
gatacagaca cgcatgaacg cacacgagaa gcggnang atgatacgaa cacagccgac 420  
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aacgagacag agagaagata cacgaagata gtcaacttaa cacagcatag gacaatacca 540  
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agagtaacaa ccctgccaca cgagtgcga gaacgaacac gagcagacga ccgacgagca 720  
ttgtgctcta gggagatcgc acaacgagga cacactgata cgacatagac ggagtacaca 780  
aactgatctc actagacaca gccaacgcc 810

<210> 30795  
<211> 326  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 30795

```

agctttttatt taataaaaatt aattaaaaaaa ataaggattt tttttacgta aaggctatag 60
atacaaagct tcacactaaa aaagaaacat ctcaactacg ttgacaaccc tcctcctagt 120
gatcacaagc aaaggcgtac aattttattca aataaaaaga agaaatagat gaccaacact 180
acgaaaagaa gtcttgtatg atgtctatgt taagatgggt atcgaaaagc tctcctcggt 240
taagtagtgg tggcattttc gtaaacaatt ataacttttg aaagacggtc attgcanaac 300
cgtcttttaa acaacttttc aaagat 326
  
```

<210> 30796  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30796

```

gcgcccttgac ccctgttgan ccaatctaga cgtgacacct tggcataagc ggcctcagga 60
tgtccagatg gagaggggtt tcagactggt gccccgatac gtttgacggt ttagatctgg 120
tcacaagaag tgtggactaa cctacttcca cgatactttg gattaatcag aaactatatc 180
acgagctact ggcaacacac ataattgggg ggcattgaggt tgcgacacag caccatatct 240
gattactgtt gcattggaca cagcatgata cccacatatg agtctccgac gaaagcttac 300
acccaacga ctgacctctg cctggatgca caatctatct gcattgacaa tgacaaagga 360
tggtttctgg ctaatatcgg catttaacac gcgctcaatg tagtcaactg attaaaatgg 420
gtctcttttc cggaatctaa agggacctca tagctagata acacttccga ataaagatcg 480
  
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<210> 30797  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 30797

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actatatgcc tcgggcacac aagctatctc catactgggt cgatgagatc aatataatct 60
cgcaaccttg tcagcaaaga actcatgagg ttataatgct tcaacttaac tgactcacca 120
  
```

tacaagacca tttgctcttg ctgtgcatgc aatctggagc aattgaacac cctgaagcct 180  
atgctgcaga catcaacaaa agacctgctc tacctcaaca acaaaatctg ccacaacaga 240  
aaaataatga cctctccagc aatatgaaca tatccaggag gaggaatcca ttcaacctta 300  
aatggcggag ccgtcacaca accacaacaa caagcacaa cctatttcta atgctactg 360  
gacaagaagc catatgtcca tcaccatcca cagcacacaa cacagcacag ccc 413

<210> 30798  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 30798

ctctgcaggg aatctaagtg tgaagcatgc tattctgcac acgattgtag ctgccaaactg 60  
ggtagccact aatcatactt ccaactgttg cacaagttcg agtaaatttc tgtatgctgt 120  
oggaaccaca tccaaatatt atctggaaac tatactcttg atcaaactgt caaacattca 180  
taatcttttag ctatcaaata agccattgcc ttccctactg tattgtgtgc attatgac 238

<210> 30799  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 30799

caagctgggt tactatcttct gcactaaatt gttgttggtg taatcaaattg cagatgcaat 60  
gcagtagaag ggggtaaaga caatatatta ctacaattat atgaaattga gtaggtaata 120  
ctaagaatag aatattagta gcatgaccga gaataaaata gccgttggtg catataacat 180  
aacaattgtc tcacatacag ggaaaaaaaa tactccaacg ccatcattag ccgggttgact 240  
tattgctgtc ttttaataaaa tgttgcccat ttcttttaaa tgtgggtgatg atgccgatgc 300  
caacagtgtg tattatcaac cactgcaagt ttcataattg taagttagac tgcaaaaata 360  
aaattcagtc caattgttct gaagttatgc ataccatgga c 401

<210> 30800  
<211> 410  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 30800

actcaagctg atgcattctt ttcctgcaga aggcaacaca atattcaaga cttataaaaa 60  
tgatatgctg gtttgagaa gatgcaatct atgcaccata ttaaaccac aactcaacct 120  
tccaccaac acatgttgac cctcctccc aaattgaaat caaattcttc gtataatttc 180  
tctaactctt ttctcgccga gctaacaaaa acctatatct aanatatttt aagaatgtct 240  
gtcactacag gacatacatt agttacttag attacacaaa caattgaata atgagcgctc 300  
taccttcata gtggtttata ttatcctttc tttattttac aacttatatg aagatggctt 360  
tcttgtttct ccataaccac ttcattaagc atttgaacc ataactcttc 410

<210> 30801  
<211> 316  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30801

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tgttcgtgag tggaattatt tgcattccat cttgcaatgg aagaatgagc agattttatg 120  
tatgtgtttg actgttttgg taaaatgtga tagtctctta tggacaccat tcacctattt 180  
gtgctgtaca atatatgagg atctgatgca ccaatttcat atgcaactgc caagtcactt 240  
gaactgttgg ctgcccagag gagcttcata gcttggtcca aagctcctac ttctcaacct 300  
cctccatgag tctgat 316

<210> 30802  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30802

ctgagaatgg ctagacatga tacatgtcag ggcttggttt ggctctatga taacatgtat 60  
gcctccatt atttccatga cacaaatgca taaatgatga tctggaaact ttacgcacaa 120  
ctggtcatgc atagcagcct atgcgcgaca ctacagtggt gaatataatt atgggtcatgt 180  
gatgctcggg ctcaagattc gtttcctcta ttttaatcgc cccaatgttt ccaagacatg 240

ttctttttatc acttttgcgca ttcattccgag tccatancgg gcgtccggtg aaacatcaca 300  
gcattcaccc ttcaagtgtg tacacgtttt ccataaattg tttatgatca atgaatttgt 360  
ttct 364

<210> 30803  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30803

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actaggggtca ggaagaagta tgatgagctg aaagatatca acctgaccat ggttgaagcg 120  
tcagagtggg aaataaaatg ggcctgaaag gaagaatgga gcaggaacaa gttctaaggg 180  
gctttgtggg ggcagcagta atgtgaataa gcttagaagg gatgaatcaa ggatggaaag 240  
catggtgtta gaggataagt taaaggcttg tcagaggtcg aagagaagtt tgacagaaca 300  
gctgagcaaa atagaagaga atatgttgat aatcattgat caatataacg agaaggtgaa 360  
cctagctgct agtcatggac atatgctgga aggtatc 397

<210> 30804  
<211> 478  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30804

ttatcatcat tggatttggg gtatcaataa aaatggtatt gttgtaatgt tattttgtac 60  
aattccacct ttgtacaatt aaaacatcgt ataaatattt tgtaatgtaa ttattgtgta 120  
taattttaaa ttgtgtaaga atttactgcc aacgatttgt cgtatgattt gtgctactaa 180  
gatccattgg anaaaataaa aaatagaatg tggaagaagt tttgaatctc ccaaagtaca 240  
tctgacatgg atacaaactt gagtagacgt tgctttgcta catattgtac tctttcatta 300  
attagaagtt tcatactagc ttccactctc ttcactcttc tccaatgaat gtaagaagaa 360  
taaattatat aatggaacat ttgacattgt tgcttccttc ggtatcggcg atatatatag 420  
atcgattctg aaaacataag tctgtgtatt atcattagca tatatgatcc ttatgttc 478

<210> 30805  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30805

tttcttgcac ttctctcttc ccttanactt cttttattta ttgctatgta tctcttgctt 60  
 taaagaagtt aattatgaat tgtcttttga gtaattcatg ttaacgggtgc attgttaatc 120  
 cgaaaagaga gagtgatagt ttaattgagg aatagtcttt gtatcttaat tcaacccctt 180  
 tctttcttaa cgttactgaa gccatttgct aacatcctat tcttgacaac tcgcttctct 240  
 aagaagacca actctcctgc cttgataaat gaagcccat gaacgtctat atttttactt 300  
 gaaaacacag tcaccaaagc tcctttctct ttttgaa 337

<210> 30806  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 30806

ctactgatgc ggcattggcag gcttacttca ctatcttgac tccgatgcga gctatgatca 60  
 ctgctcttcc ttcccgcgac gcgtcttcat atgttcgcct gagtgggctt atactctata 120  
 ccatactatc cacgatgact ttggctatat caagctggca tgcctgcgat gtcggttgct 180  
 agaccatata cgggttcata accgactccc aacataactc cagccatcat tacatgctgg 240  
 attggacagg caatgcttcc ccagagaatg agttcacgga tgaaattgct gacaccttca 300  
 gagcactgga tagcgggttc taacgacctc tctggcggct acacttaaag catataggat 360  
 gggcaacttc tcaagatgac tccctgcct gagacaagaa cagatggcac ctcaatacaa 420  
 attaaacttt cgtggagggt gaggaacaa cctcgttgat ggatcatagg cggccaggag 480

<210> 30807  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30807

tgaagccctg acacnttgga anacaggttg ancccttgaa cccacgnatt taagacgtcc 60  
cagggaaactt ttgcctttga tacggcaacc acgttgatag agacatccca aggaaaaggt 120  
cgttcttcag ctaagccagg catcaatcca atctacggca ggtaatggcc catgactgcg 180  
gcttggcgca taagaacatc aaggcctaca ggggtgtagta ctgatattct acgcaaccac 240  
ttccccgttat ggaatccacc tttatgagat gaagcatgtt gtattttacat caatctaagt 300  
ctggataata aggcgggacc atctgctttt aaccaccta gaacacaaaag ttgttatagc 360  
taggctcgta gagccgaaag ctacttaaac tcaagactca tcc 403

<210> 30808

<211> 500

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30808

cgccgcattg atccatcgtg agcgatgaan acttaaacc tgagaagtgc gaggacaagc 60  
tctcaggcna agctcgaatg atctctgcgt attctaagag aagttcacgt tcatagccat 120  
cggagtctga taagagtatg atgaactatg ggacgtcatt atggtcaccg ctgaagcctt 180  
ggaacgagaa accacaaagg cctcgaatga atatcactac caatgcaaag ttgtgacggg 240  
ctctataggg cagctatatt gatctcaacc tccgatgagg tgataggact catcatgggt 300  
caaaggcatg aacctgaagg acgaactaat agcttgctc aagtcaaata gagaattgat 360  
ctcagataa tacgaaattg aaggattatg tggccatctt catggtgcaa aataactatt 420  
ctacacgatt acgactaagt tatagtgatt accccgattt ancaaaagg accaggagag 480  
ggtcttattc ttgacctaag 500

<210> 30809

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30809

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aatatatcga taagctcgaa attgaatgtt gaacctctga gcaaattcaa acgacaataa 120

ctttttactc ggatgtctga ttgagtcctcgc tcatatatcg agacattcga aattgaatgt 180  
tgaagctctg agccaattca aatgacaata acttattact cggatgtctg attgagtcctc 240  
gtcatatatc gagacgctcg aaattgaatg gtgaacctct gagcgaattc acaccacaaa 300  
taacttttac tcggatgtct gattgagtc ccatattata 339

<210> 30810  
<211> 546  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30810

cgatgtgaga cgatagancn ccnttcgttt aganccccct agctatatan gagacactac 60  
tcagaataact caagccttca acagttcaat tttcgagccg tctcgatata tgtataggcc 120  
tctaatttta catnccgagt gacaaagtac tctgtcttnt gaattgcgct caaagcttca 180  
acattcaatt tcgacgtgtc tcgatatatatt acttggactc aatctgacat gccagataat 240  
agttattgtc acttgaattg gctcagagct tcaacattcg aattctaacg tctcgatata 300  
tgaagggact caatcacaca ttcgataaat agttattggc gcttggtatg gtcagaagtt 360  
aacattcact ttcgaacgcc tcaatatatt actggactct atcagacttc cgagtagatg 420  
gtattgtcgt tgaattggct cacatgttga aattcacttc gacgcgctga tgagttcggg 480  
accaacagac tcccacaaca acttttgatc gtacagagta gacttccaat tcattgttag 540  
cgttcg 546

<210> 30811  
<211> 562  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30811

caccacacac accgacaggg actgcgaagg gaagacaaaa acgacgagaa acgccaagca 60  
cacaaaagag aaaaatgaacc ttgagacctc gaaanccagg tggaaacagc agaaccacac 120  
ggaccgctaa agacgacctg caggcaagca agcaaagatt tcagacgccg cacacggagc 180  
aggaacagcg ggaaatggac acagaagggc ccgaacagcg tagagagaca gaaagaaaca 240

agcaccctcaa gagcgagaga aggaacaac caaaagagcg ggcgaggagc aaccacacaa 300  
 agaaacgcac accgaggaac aaggcaagag agcagaacgc caagacntcc aaagacgaga 360  
 aagacaagag gcaacatcaa gaaacgggaa agggaaccgg cgcacacgat gagaacatga 420  
 aaggcaacgg gagtcgacac aacggaaagg caaacgggtg aatcgacagc aacacaagcg 480  
 ccaacactag aacggaaccc gacgaggagc agcagcagaa ggcaccaagc cgcacgggga 540  
 cggcagcgtg cccaagagca cg 562

<210> 30812  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30812

cctgcctgtt taacacgtag tcggcgggtg cacatantcc anccctcacc gaggggatgt 60  
 gacctctaaa ccccgctcagt cagttgacgc aacgggcacg accactccac agcagaagat 120  
 ttttactgcc acacacatgt caccacgcct cacagtggca tatactctcc tctcgtcgca 180  
 gacttggtct acatcatatg ggtgggtgccg caaatggcag attcctggca actaaacgcc 240  
 gtcgatcgac aatgactctg cgactaacct cagcatacta aggacgcgtg taaggcaaag 300  
 atctgcgcta gcagacctct catgcatggc acgcccgcg atgtcgggtg catctatcgc 360  
 ttcgaatata tcatatacag aggggatcta tgtggttagc tctgagtttg ttctcttagc 420  
 gtgatgatac gtggtggcaa cgcgctcggg tcggatcgga ctcaccacta cagccacaa 480  
 ctgtgctcac atagaggcgg catg 504

<210> 30813  
 <211> 96  
 <212> DNA  
 <213> Glycine max  
 <400> 30813

ttcttgcttt tccttggcct acataatttt tttcagaata cacgttgcta tcatgtgcta 60  
 caattgtgac cttctgatt aaatgtcaga tgatta 96

<210> 30814

<211> 514  
 <212> DNA  
 <213> Glycine max

<400> 30814

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tcacacgttg ttgacccctt cgaaccttga tacttggcac tacgcgcctt taaacaccgc 60
ctcactacta tttgtcaaac ctattattcg aggcgaaacag tatctatctt cccgcaaact 120
atgtagtcca tccccctgcat ggaagtgcac ctaaaatact ataatttggg ttgccgctat 180
atccaacaat cttcaagggtg ggcttaaggg atagataacc tacatggatt gaaccttgct 240
tgctacacac gaattaagag aatcatcttc ttttgactgt atggatagcg actcctcgta 300
ttgctcttct ttccaatata ttctgtcgcc ctcttaacga tttcatattg ctgtgttaac 360
ataatgcctt acttcttata gggattcaaa tacccaagca ctagtgtatg cgtttgatta 420
tctttcctct tatacaagaa acaacaacaa aggcctatta attgagttgg aaaggatctt 480
tcgcatactt tactcctata tggaacatat cgcg 514
```

<210> 30815  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30815

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tctctaggga gatccttttg ttcttcttc caaggccaag ggtaataatt ctaatcttag 60
gtcaagggtta agggccgatg acctgaggtt ttggctcata agacttgtag agggccggac 120
atgatgtatg taagggatat gtgttcngta accgttcagg gataacggaa tgcccatatt 180
atttccatga tacccatgtg gacactcaaa catcangtnt gtagtaatgt gagactaagg 240
cttangattc atttttccca tttaaataca cctagtgtnt ccagaagatg tgnnttatca 300
attatgcatt catctgagtc t 321
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<210> 30816  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 30816

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tgaccttgac cctgaacctg aaacgccata actcgcttga gagatacatt attcccaccc 60
```

cgttttttga gcagaatcct ggaaactccc gatcgatcca aaaatttagg acagtcgact 120  
attgagggga ttaaagttta aaccgcaacc cgttgttcca aaattttaaa ttttaagtcc 180  
aggggcctcg tatcctcccc ggctgagaac ccgccagggg taaaaggaca tggtgagcgc 240  
caggtttcac cgaggtcgca ttaggggggc cagactagcg cggtgaccog gggggggccc 300  
cttaaategg ggctccacg 319

<210> 30817  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30817

agctttgcta gaaaagggtg agtattttct aananaatta tcgaaattta taatgggaag 60  
agataactta gaggcacttc ttgcccacaa aaagtgcgtt attgaaaagg ctgggttggg 120  
atacaataac aataagaaac agatagctga caaaatcttt ttcaacgtta caaaagcttc 180  
cagctcacc atcatagtat gctactactg tatgaataag ggacattctt cttttaattg 240  
ttgattaagt agtttgaat tccaagtggg aaatacaaat gggttcctat gggaactaat 300  
aaggttgcta accaataagg acccgacata atttgngtac atagatctac ctctcta 357

<210> 30818  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 30818

aaccgcccag agacagggca acacaccccc ccagggtgac tgaaccacaa ccaccaacgc 60  
caagcaccac gacgaatgcc agaagcggac cggggaaggc agcacggaaa cacggagaga 120  
agcacccgac acggcaccga gagacggacg gaaacacagg gcaggaaaca agacgacgaa 180  
caacacaccg accaaggcga acaaggcaaa ggaaccacgg aggggcccgc acacaccggg 240  
cgcacgcgcc cccagccgaa aaaacaccca aaggcagggc aagacacaca agcgaac 297

<210> 30819  
<211> 392  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 30819

agctntacat tggttatcaa ttgtctaaca taaacttctt cttttactta ggacttggga 60  
tataacatgt taaagattgc agcaaagcac aacatgggca ggttgatgac atgattntga 120  
aattacaata gaacattatg ccagatatat gatccatgta ccgacccac ctagtgagaa 180  
aaggattggt ttgttaatgt tgtatacaaa ttcaacatac ttcaaata atagtagttg 240  
tagagttcca agccaaaaga taaggtgcat ttaatgcata gtgggaattg gaattttatc 300  
actaaggttt aggtggttta aatgcaaagt gaaagattgc attntactag atgaaactta 360  
tttgaatgga tgcattggaa gttgtattgt tc 392

<210> 30820

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30820

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ggccttgatt ntctcaaggt ccacttgac cccatttcta ccaactacaa accctaagaa 120  
aactatatta tctacagaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180  
aaagactgaa agaacttgcc tgagatgtcc tgagtgatca tctangctcc tactgtacac 240  
tanaatatca tcaaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctageccattc 360  
atacaaacca aacttgggtct tgaaagcang tatccactta tcaccatttt tcatcc 416

<210> 30821

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30821

agcttgatgt gtgtattcac catctttcat agtagaatac tgggtaatgt gtctaccaca 60  
cgattatcat ctctttcca tcatttgggg gtgccactgg gctgccagat ccctccacct 120



<210> 30824  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30824

taagagtnta accatgcgta gatatcctat ggtaatatct cattttttta ccatttgaat 60  
 agtgtaaaaa cactacccaa tcgcctaaca aaacaataat actgtctacc acacacacat 120  
 gaaaaattgn gatgttaccg tgtttgtttg acattctttg tcttcctagg agtgtatgta 180  
 ataatatctt tgtagcacac atgagaccga tgttgtttgg taagagaaaa ataagattct 240  
 agtaaattha gagagtttga taagcactgt gctacttcaa caaatataaa gatatgtgaa 300  
 atttggtgaa gggatatctt cctcaaatac ttgtcaatta atataagcat acaaaatana 360  
 attaaatata atataaatca taaaatattc tactaattat aagatcaaca ttggataata 420  
 agagtaagaa cacattatta tttaaacagt tgaaagataa aagtaatatt attaaagaac 480  
 ta 482

<210> 30825  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30825

agcttgtatc taacggtgat tgcaagcgat gcagcataat ctagatctct gacggaagac 60  
 aagttgaacc ttaattggtg aagatagatn ggggaaatat ngaatcatga tttatatata 120  
 cgtcaacagc acacttattt atattcttcc tttctctgca tctccctcta tcataggagt 180  
 gttaatTTTT agacacttaa acaatngaaa cacttaanna taatattggc atgtgtTTTT 240  
 tttttttttt tatctcccac ttcatTTTaca ttacataaac aatcatatat atttcaacat 300  
 ccacttattt tanacatttc atcaataact cttatttntc tctcttatca catcatataa 360  
 tctatcatatc atnatnttct tcttctTTTT tttcactatc tct 403

<210> 30826  
 <211> 469

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30826

ggattcaact tgggactcct tccgttntgc ttctgacaca gcctgtctcc gctaccatga 60  
caacattcac ctccagaaca ttcttccaaa gaagaatgtg gagctcgccc ccacgatata 120  
cgacgaattc tatgggaagc tctagcggag gcaatggcat agacgaatga gaaacagatt 180  
gatgtggtgt tggatgaagag ttctactcca acttttatga cccggaggac gactctccga 240  
agcagtgtctg agtgcggngg aagaccatca aatttgacac tcagacattg aacgatntct 300  
tatggacctc gtaatcattc tggaaggggg agcaactaac tacatattcc cagtacctcc 360  
aaacttatcc tgacctccca cactctaac cttaacatag gaccggcccg cctaataatac 420  
agactcgtga tgaagatgga catggatgtg ggcagtatga tttcctttg 469

<210> 30827  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30827

agcttgagta tagagacttc tcaagctatt tatcttctct ctccagagaga ctctctcatt 60  
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gtggagatta cttgtatcat anggtggaga ttaattctct agaatgttgc acacattcta 180  
tgagtcttta cactcttcta ctcttttcca tacccttcca taaggttcca cacatctcta 240  
gaatattcta gaggtttcca cattcttcca caagcttcta gagagttcta cactactcta 300  
gagttctcta ggacgttcta aaaaattcta tactnttcca gagatgtcta gaattttcta 360  
gaacttctcc aattaagaaa ggattccaac aattgtaatg tatc 404

<210> 30828  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 30828

tgagcttagt catgagaggt gtgcgtgtac ctaatctcta gagtctcatt gaagatgcct 60

cagagatgct tatcaaggaa ttactctcaa catagcttct caatgagacc gcctaggcta 120  
tgaataaaag catgtgtagc acttgtgtaa ctttgatgaa tgagagtctt gtgatacaca 180  
actcatagct cgacttctct cctttggtct tccttccatt actagctccc ccctctctct 240  
atgtctgact ttttcttttc ctccatatga acatcctctt caagcttctt a 291

<210> 30829  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 30829  
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aacaagaatt aatgatactt gcattgacat tataaaggtc atttatactg tcatctgac 120  
acacatcgtc atatatgata actttgttga cttttgcaat aactcatctt tgaaagttat 180  
aatgatgatt tctgatttat caacaatgta aaagctttta cactaactgt acatgcctat 240  
tgagttctta ttaaaaagag cttatagaat attcatcatc tatgagcatt attaagttcc 300  
atgtaagctc tatcaaagtc ctcttaaate cttcttacia attgaagctt cgaacaaaat 360  
ggattgagac taacaataat tatct 385

<210> 30830  
<211> 180  
<212> DNA  
<213> Glycine max

<400> 30830  
cctgacttac tgacagacac gcgtaaaaat tcgtttccaa aggcgtatag acgacagccc 60  
ccaaaggcac atcacaatct ataaggagat cgacataccc taccatagat catataacta 120  
tcagctagct ctttccgatc ctcccagggg gaacacatat tacatgccc aaactcaacc 180

<210> 30831  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30831

tttcttgctt ctatgcggtg gaggtgcttg gctaccccgga aatgaccacc aagtgggtgtg 60  
 gcatggaact ccgataagag ggatgggata aatgggttgg ccggattcaa ccatattcaa 120  
 tcattgaaga gtagatagcc attatgaacg cgatactgag ggtagctaga aggatcatgt 180  
 tgaaccttgt cccgtaacgt ctgaatatca aagtcgtgct cgagtgtttg ttggatttcg 240  
 cgcagaaagt caaactgatg aactgaaagc acgagtagct ggccggcgag agagtngcat 300  
 ccgcacaaca tttgtggcac ctgccttgta ttgtatgggtg taattaagcc tagtaacttg 360  
 gaaagatagt agtgctgctc ccgggtctaa atca 394

<210> 30832  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30832

ctcagctgct cgctacgaga caaaccttag aatttgtgat cagatatttc gcgcttagcg 60  
 cacaaccact tacactcgct cagcgagaca tgctctntag agcacgcctt cgtaagctga 120  
 gaagcctaag agcctttaat aacactaaga atagagggag ttctttatct tagtatttaa 180  
 gccttggtgc ttatgaaggg ctgaacactt cattgttgat gacgtctcta ctgagcactc 240  
 ttaatgtaaa actcctaact atctatttaa atgtacttgc tagtcgttca ttggctctat 300  
 ct 302

<210> 30833  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 30833

tttcttgtgt atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60  
 ccatttgctt ccaaagtttc atgggtcttg aagtgaagac ccacacaagc atctgaaaga 120  
 attccatatt gtttgctcca ccatgaaacc accagatgtc caagaggatc acatatttct 180  
 gaaggccttt cctcattctt tagagggagt ggcaaaggac tggctatatt accttgctcc 240  
 aaagtcctac acgagttggg atgacctcaa gagagtattc ttataaaaca ttttccttgc 300  
 ttccaggacc acgaccatct gaaaagatat tttaggcatt acaaaaactca gtggagagag 360

cctatatgaa tattgtgaga gattta

386

<210> 30834

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30834

tgatactcag ctgcttctcc aaagcacagc cttctggatg attgatctgg aatgtctaag 60

tgggccagat cgctatttgc accccctatt tactaaatgc accccccttc tattattttc 120

tttghtaattc tttttccgta acgctacgag actgtgcgaa ttttgttgcg atacttattg 180

tccttgcgca gggttacgaa tccttacgga ttatgtattt actctttttt agctttcgaa 240

gaagttactg aaactcacgg attgtgcaan aacacctctt ttcaatttcc cgcacat 297

<210> 30835

<211> 317

<212> DNA

<213> Glycine max

<400> 30835

tttcttattg tttataaagt actggatcta ttggtctagt taacttctta ccaatcatat 60

ttgttcggct aagattcttc tagatttaac tctgatccat taaatgttga tttttgtgca 120

caaattagag atgatgttga ttgtttaagg agttctcaa gtaaccaagt taaaatgggt 180

ctctttggat tgcaatctta gaagtaatgt tacattgggt ggaatacagt gcttcaaaat 240

ttatagatag ccttcatttt ttagttaatt gagaatgcga catcctcttg gattcatatt 300

ggtgttcctg tatttgc 317

<210> 30836

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30836

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tccatcaaag ctacaacctt tgacacccat ttctgctcca aaatcgaga aggaagccat 120

tttcggagtc gagaagagca cctctccatt gtgggacctc acatttcacg tttgggtaga 180  
 cttcttctca cataaatttt cgtgggtatt gcgttttggg agatatgatg ggtagttnta 240  
 ctaggtttat gcctcatgat agttatttgt gaagaaattt gatgaaagca tgttgaactt 300  
 gtcatgtttg gtatgagtca agcttaccca ttctgttgta gggttnttat gatgatgctc 360  
 gtatgctgaa atggctgatg gaaaaatgat aaagatgaac ggtagaatta acctangggg 420  
 taaaagtgag aatgtagtga tatgagtga aaag 454

<210> 30837  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30837

tattcatgct atatccaaga tcaaataacc cttgagggaa aaaatgggta ccaattatct 60  
 aaatgacaat atgagtatca aagtccacat tctgtgtgcc ttaatttgta tgtctggggt 120  
 aataattttt caaggagttt tattcttgta aaactatgtc aattcttact gaagatgctg 180  
 aagctctatt attattcaaa gtacaagttc tgctagctaa gctcnaataa catatctaga 240  
 gtctca 246

<210> 30838  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30838

agctntattc aactgaaga ggacaaaaga gactttgttg atcaaattga gggtgggtgaa 60  
 ttggaaaatt cagttgcgga ggatattcat gagtcaaata aaaggaaaac tcctttcgaa 120  
 ggtttgtctt ctccatccta ccaaatttga cctgggtgtt cttagaagtt aaaattagca 180  
 atttatattt attntgttat tcaatattct gattggaatt tccaaatgat tttccaatt 240  
 acagtattat tgctgatcc tttcttgaat agttgttgca cactagcttc tttgcctatn 300  
 agaatttatt gatgtcataa acaacatgta ttctangtat gtttgaataa tcttctccgt 360  
 aaac 364



<210> 30839  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<400> 30839

acgcacaccc tgagctgcac cacgtgtggg cgtaaacgcc tccccccccc ccagagcatg 60  
 accatcgaaa accccttaag accgcccgcac agagcgcagc gtaacgagca cactccacga 120  
 ttagactgct gaccaagcac cacgggagca accaagcatc gacaccccac caacccgaga 180  
 caataacgac ctaaaaacgc agggacaaag tcagaaaaaa atggcaaacc cgcgaggaca 240  
 gaaggcgcaa cacctggggg gaagaagagg gtaaacacag ccgagcaacc gacggacaaa 300  
 cgcgacagag aaccgcgaga acagccgagc gattcgcggg cgagacgaag ggagcaagta 360  
 cgcagaggaa accggcgacc aaaggacgaa aacaaggggc gccacacgcg gagctcacta 420  
 aagacaaaag gcgagaacga cggggaaaga aaggggacag acagactcac acaccaacg 479

<210> 30840  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30840

naagcttatg atggtgttca atatttatgg gggngattgt acatcaaaaa aagatgagaa 60  
 aaatgaaaac attntttttg taatgaaaaa tgaaaagatt aacaccaaaa agaagaaggt 120  
 gttggagaca ccgatattaa tagctgcaaa gaacggtgtg acagaaatgg tagagaaaat 180  
 cattgactcg ttcccagtag ctgttcatga tatggatgcc aagaaaaaaaa atatagtgtc 240  
 attggcagta gagaacagac aaacttactt atataacttc ttgctcaaca agaaaaatct 300  
 aaaggaaagt aatatattcg gaaaagtgga taacaaggga aacagtgca 349

<210> 30841  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30841

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 cttttctgat caggtacatg gacatgagtt angcacccaa atactttaaa gtaatctact 120  
 ntaggtttga ttccactcca catctcttct ggagttttat ctttactgt caatgtggga 180  
 ctctgtnga gaacatgaac tgtccatttt gcagcttctg gccaaaaagc ctttaagtact 240  
 tgtttgtcac aaagcatgca ccggaccata ttcataatgg ttcgatttta cacttcgcta 300  
 cgccgttttg ttgtggagtg taagatgtng tgagttgcct gcttatgcca tgaattntac 360  
 aaaatcatta actcatttga ggtgaatcac cccccctatc tgtgcgtaac aacatat 417

<210> 30842  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30842

tgcaccaata gataacatct ttngatgagg atnagcactt ncagactgtg ganctccatt 60  
 atntntcata tgactttaac aaattgttaa gtcataatac atttatgtct taaagatgaa 120  
 ttangactcc taattanttt gattagatga aaataaatat aaatggtaaa aagtgtgtct 180  
 aata 184

<210> 30843  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30843

cttctacatt caacctacag tcttctcana tgtttatgta catctttcta gttgcattnt 60  
 caccttatca gaagagactc tgnaaagtta aaatacaact cataatgctt tcaattgaat 120  
 ntgtaacaat caccaggatg gcatgctgat tgcanaggat gagatctttg gtccagtcaa 180  
 tccatattan naatcaagta agaaaacaac tagtgttagt taattacttt gcagagaaatg 240  
 gtattatact accatacatg tgttgtgctt tgtgcattaa tttttgtgtt gatgactcca 300  
 gggaccttgg tgaggtagtt catagagcga acaacacacg ttactggctt gcggcaggaa 360  
 gtgtcacaaa gaacatggac actgcaaaca ctttgacgcg ggcaactgaga gttggaacag 420

tttggataaa ctgctttgac aca

443

<210> 30844

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30844

agctngtgat tgttaaatat atatataaaa agaaaaattc cttgaggttt tgcacttgca 60

cgtttgagaa gaaaactcac tcgaccagga gcttgtggaa aatgccc aaa gacaattgtg 120

ataatagggc acatctgatg ttagtcactc atgcagactc cttatgattc cttatgaatc 180

caaaggtggc ctttcttgta caaattcttt cgggatcaac ccatgacatc aagtttttagc 240

aagatcaact gacccatggc atgactctat gatattaaat caggaaagtt tcacttggtc 300

acataccaaa gtgtgacaat ccattgccat ccttcaatgg ggtgcatgat cgatcccaaa 360

gccatatatt ttcttgttgt gcagaaataa tcaaagcttt aaa 403

<210> 30845

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30845

tgagatgagg aagtgttgaa gaggtaaact tcctgctntt attgttgacc acagagtggc 60

acctggagat atgtcgcggg ggtcaggaga ccttgnngac gtcagggtgn gtgctattgc 120

ccanaaccaa gcttgaccaa tcccaaccca acccgggcat agtcggtcag tgagaacctg 180

tgatgtacct aagcaggcga gctcctngca gtcaacagat aanagganta caagaccaca 240

aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300

tctctgggta atcgatacca naggtgagta atcgattaca aggcttanaa tngaggacag 360

gaggctaaga tgggtctctg taatcgatta ccaaggggtg taatcgatta cc 412

<210> 30846

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 30846

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 actaagctca cctccttgag aaagctcctt gagaagattc ctaaagaagc tagagcttag 120  
 gtacacacac cccctataat agctaagctc acccccatgc caaaattcat gaaaatataa 180  
 aaaaaaagc tctattacaa agactactca aaatttcctg aaatacaagg gctaaaccct 240  
 atactacttg aatggccaaa atacaaggcc canaagagga aaaaccaatt cttacattta 300  
 caaagaagaa tggatccaac cttgacccat gggctaaaaa atctacccta gggcatgag 360  
 aaccct 366

<210> 30847  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30847

ntgaattcca gtccaaactc acttcacaaa atctaatttc aggcttatat aggtggcctt 60  
 attcgtgctc ttgcgcttag tgcacgaatg gagcgcttag cgcacgcttag tggattttgg 120  
 cttagcgcgc ctttctcgct taatggatga actgaagcag tgcgcttaga gagatgaagc 180  
 agtgcgctta gcgaacctgt acaactcatc ttcttctgga ttcttctcgc cgcttagccc 240  
 aggagtgttg cgcttagcgg atgctcgcta agccaacaga ttggcttagc aagaagggtga 300  
 aaacaacctt tttccaaagc tntcctaatt aacctanaat tgagagaaaa tgattattaa 360  
 acacaaaana tgaaaatact aagtatttat tacctatact taacataaaa tacttataac 420  
 attacaaaat aaccataaat taagagagtn tgatgcaatn tatancaagt ttatacacia 480  
 aagttagt 488

<210> 30848  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 30848

agcttcagtt tagtgactat cttcaagtgt acatgaatcc taaataacat ctacttaaaa 60

gtaataaact ctttaaacca gaaaatccca tgacacaacc aagcagccgt ttgtgggaga 120  
 tgaggtttgt ctogttgata tggtccttgc ggccatttgc acatgaataa ataaaaccac 180  
 agcgtgcga acccttcaca aacggcggca acagagtgat ttgcggtgcc aattttgggg 240  
 tgttaggggtg gagctgtgcc ttttggtgtg ggaggggtggc ggtaggggtg gtgttatgaa 300  
 ttttcaataa atcttataaa atatcaaag agcaccataa cacattacat tacgttagat 360  
 catcaagaga 370

<210> 30849  
 <211> 76  
 <212> DNA  
 <213> Glycine max

<400> 30849

tgaactcctt attcctttga gcataagcgg caagcttcat tcaatgtaaa gaggggcttt 60  
 ccactccttg aaccct 76

<210> 30850  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30850

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 ttccaccctc atgttttctt gttctgcgat tcttgaaaaa tacctcattg ttgatggttc 120  
 cncgactttg acgngatca tgatgtctat gccatatgta aggcgggaaag tagtttcatt 180  
 gggtgtgtgc taaggatgaat aatgataagc ccaaagtatg ctanggagtt cctccttcca 240  
 taaacccta gacttgtaa gtcttgtgcg cangataacc ttgtttgcta cctctgcctg 300  
 attgttagtc tggggtgttc aacagaagtc acgaagtgtc tgatcaccta cctcatcaag 360  
 aattcttcat aagcttaagc tttgaattga g 391

<210> 30851  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30851

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agatttactg acgaacgtcg aagaacggtc aaaaaccttc gcgaaatcac ttacggaaac 120  
gtttcngatg cgctcggct cgaattctct tcacggaaac aattttacta agcacattcg 180  
atagagagag aagtgcctaa ggggctgaac ccctattcta catcacttgt cccctagtc 240  
atagaaaatt gtgggagaag cttgccaccc agctctccct ggcgagcagg gttgtttcct 300  
ccataagcaa cagccttctg gaggaatct 329

<210> 30852  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30852

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tgcaataaga gtacaagacc atgtgttccc tatgttcatt tcgtcgctt ttggacactg 120  
tctcttctag aagacaacct aatggatntg ctcatctcca agcttgatag catagcctat 180  
ctctcatcac caanagtttt ttaattactt gctctagctt cgtagctagg taggaagttn 240  
tagttaagat catagcgtac agcttggtgt acactcttat ccctgcacac cagcatata 300  
taaatagtta aactgtctta ttttgtgatc attaattctta tgagattctg tacataagtt 360  
tcaatatgca tatatccatc actattggaa gaa 393

<210> 30853  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30853

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gttgtataat gttcgaagat aaatttcaga gagccctgag ttaccaaaat ataagtgatt 120  
ttttttataa aatagttaac tctattctta ccagtctgtc cccacagtgc taagatagca 180  
tttgctgctt gtgacatctt aatttgattc aaaacatctt gtactgtttc aggaattctt 240

aacttanact aaacactggc taaatctgga tattgttttt gtagtcacat ctacaaacac 300  
atg 303

<210> 30854  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30854

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gaggagatta ggcacggttc caatcagaga ttaaataact taccctgtgc ggtacttggt 120  
ggagaagagg gataaaagaa acaggccaag aagatgaagg atagcacgga tagggaaaca 180  
aatgggattc tatagtggaa tattntatcc acggatatta aactctatta gttcaccttc 240  
tgtatgaaca tcttttttaa tagtcctctt cagagttttg acactctata aactctaatt 300  
aaattggtta gatttttttaa gtntatcaca tacatactca attagtcaac aagttaaaaa 360  
agtagaatat atatatatat atatatatat atatatatat at 402

<210> 30855  
<211> 809  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 30855

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nctancanta tcanacnnch nnnccccccc cncnncccc cagcaacgag cgncnctatt 120  
agtatnagcc catgcgnaag tcanncanga cancnnaann anacnacgag acangnnan 180  
gcagaccgac gcgacgccg nacgacggng aangacgaca cggacacgan gacanacncc 240  
acgcgctagt ataagtgagc acagtactgc gcgtcgatca acgacatcng cgagggggagc 300  
gagacagacg aaggcggcga cacacatacn catcgcacga gacacagaag agtancgcga 360  
cggcatctcg ccagacaaga gcatcacaga cagngggagga caacgcgngc gaagcgacac 420  
aagactgcac agatgacaca gacaagagac aacacgccac gacacgacgg agcgacgaac 480  
aagataggaa actcgccaca cgcagcggaa caacacacga gagagcggaa tcgtgacgga 540

ggaggcgcgga agaaacacgc ccacgccatc tacgaaaggg acgcgangaa caggcaacga 600  
gagacgaacg acacgaaggc aggcgaacga gcaatgcacg accggggcaaa acagaacgaa 660  
cgacagaacc gcgcacaaac gaacatcgcg caacgcgaca atcgggcagcg cgacaacaac 720  
acgaacaaac acaagcgcaa gcgatggaac aagagagggga gacccgggca gcaggcgga 780  
gancaggcca gaccagacaa acctatacg 809

<210> 30856  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30856

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atgatgtata tataactctg ttattggacc caacaattgt gaagcatgtg caatgacaaa 120  
attggcagac catgtgtgga acccaccatt agtaaaacaa attaactaac aagataggtc 180  
tatgattaat cctaagaagc tcttttgatt atgcctttat ntgcatgaca tgagaagttg 240  
gcaaaagtat attgaacata aaagttggcc gagaagcttg acttatctgt cacaagcatg 300  
tcacatttct ttgagtgcag tgcactccct acgcctgctg gtggtggaga aagacctgcc 360  
cctgtcgtga tcacaaattc acgaccacca tgctcacaca t 401

<210> 30857  
<211> 263  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30857

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gttgatcggt ctctatatat tgtgtgcgcg aaaaagatta aggatatcct accaaatgga 120  
ctagtcacaa aataatttct tgattgctga tattaatggt gtatttgtct gtgcagatgt 180  
atgagaatat acacacatca tttcttttgc cctgcaatcg agggaaatct gcctttctag 240  
gcttgtggag aacttaattc tca 263



<210> 30858  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 30858

tcccatggtg catacgaatg tgtgatggat tctgtggaaa gtcacggttt cagaggtgtg 60  
 gatgagagtt ttggaaactg cttctcctgt tgaatctgtc actcatttgt aagttttttg 120  
 tttttcgcaa ttttaattact ctgccctttg gattttcaaa tttgtggacg tgtgttggaa 180  
 ctgcggtttg tctctggaag aattgttctc acaatccaac gtcgcgtgaa tgtctgttct 240  
 ctcatTTTTat tagtgcattc tacgtgttat gcctgtaatg 280

<210> 30859  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 30859

ttattataac gactaataac taaacttggt atagatatTT acttattttg gatgtgtaac 60  
 ggggtggagt actggctgtc atcgtcacaa gggaaatgga caaaatggca aaaaatattt 120  
 tataataaag ctgtcattat aagggtttat ataattcgag aaataaattg tctctctctt 180  
 taagatcgat ctatgatact atgaaggatg aaaacttcat ctttgtgaaa gacacgagat 240  
 attatcgcta aaatacttat tctaaactag tagaagaatg tttataataa aaatgttcgg 300  
 taagaatttc actttgataa tatgtcagag aaaatattta ttttaaaatt ctccagatat 360  
 ggtctatttt gcgcaagttt cttatcatgg taaaat 396

<210> 30860  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30860

agcttgtgct aatgtgataa ataaaaataa ctatnttcaa aatgaccact tttgaacagt 60  
 aatttgtaat tntgcatcaa gttgggtcaat cagcccttcc tttagaacgt gttttgtttt 120  
 aacgtgtttg tactttgcga tgaagcagtt gaacgtgact gtaacaaatt gttgtgattc 180

tttntgttta tgtaataaag gataaaaattg tttgattcac accataaacc caacacccac 240  
atattctgtt atgtgttgtg tctgctgctg ctctagagg cttcaccctt caccaaactc 300  
ttctcttttc tcttcaatca cgcacgcact tctcactcat tttccagttc actttctga 359

<210> 30861  
<211> 124  
<212> DNA  
<213> Glycine max

<400> 30861

tattctaaat agctctcgat agcattatga atttaggatg ctgaatctag ttgactgaaa 60  
tataacctat tgagactgat gctttcaata tttaattgtg attttttatt ataattcata 120  
atga 124

<210> 30862  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30862

agctntctat atattcaaat ggtcagagct tttcacacgg aggaccgatt catgcgcgta 60  
atatatcgag atgttcgtaa ctgaacaaca gaagctctcg agaaattcaa atgggcataa 120  
cttttcactc ggatgtccaa ttcatgcgca tcacatatct agatgctcga aattcatcaa 180  
ccgaagctct atagaaatgc anatggatcat aagttttcac tcggatgtca cattcaggcg 240  
catcacatat cgagacgctc agaattgaac aatggatgct ctcgagatat tcaaattggtc 300  
ataacttttc actcgcatgt gtccaattca ggggcatcac atatcgagac gctcgataga 360  
gaacaacgg 369

<210> 30863  
<211> 668  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30863

gccgagaggg cacacgggtca agacaagaca acgcnnacc cccgagagac tgaacntggt 60

gagccntgga aaccacacac acaaaccaag ctccgcaacg agcaaaaagc agcgagataa 120  
 tcctaggaca tattactagg cagctacact gacgccatcg acgggcgatg gcggcagaca 180  
 agtaagcagc gctcttgacg cacaagagag gcgacactag cgaggagata cgcatgtcgc 240  
 ctagtgatcg cacgtattga cgatagataa tatatncgcg cgaggcgtcc ccacgtcggc 300  
 agcgacggac agggcgcgcac tatcgacgcg cgcgcaacgac gacggaacga tctgcgactt 360  
 acgcgtgagt gacgacacta cgagacacaa cgttcacgcg cggcngaata tcgactgcga 420  
 cgtntagaga ggcaagatcg acaatatacct ctgccctcga gtgagacgac tgacactcga 480  
 ctatctacac acgacgcaga cattacatgc gaatataccg actacaccgt cacatgtgct 540  
 atgagacgca cgagcagcga gatgacagcc acggcgacgc cactaatact acacaancga 600  
 cactgctgcg cgcgaacaca acacaagtca cagcaccgtg cgctggcgaa caaggaacgg 660  
 cactcgcc 668

<210> 30864  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30864

agctttcaat atcaacatctt ccttttccct ttactgagat gaaatcacca tttccaattt 60  
 ttactttgga aacaatgggt ttgtcaagtt ttttaaagag gttcagggtta ttggtcatat 120  
 gggtttgtgca gccgctgttt attaaccatg aatcactgga actattgctt gtgacaaagc 180  
 atgttgcaac aaagagttgc tcatcttctc attcctccgc aaccaccttt gcttctctcg 240  
 atttggactt gcatattcgc tctacatgct ccatattgct acactntctg cacttgacat 300  
 ctggcctcca ccaacattnt ctttcaggat gatttgcctt tttgcaatgc ggac 354

<210> 30865  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30865

aggtgtnttc atccnctgca atagtctga attgtgaaat ttatttggaa natectactt 60

tgaatatgta caaacgcatt ggtgagattg tagatntaag cataactaga catccgaagt 120  
gatcttatgg gaatggaatg gactcaattg cataagtaga gaatntacaa tgaattttga 180  
tggn gatgga tttttcaagt tatttggttn ttaagctgac aagtatgtca acttttgngg 240  
cattaatttg tagttggtgt aaaaacacta gaaaaatcaa tgaggtgtct taagacattg 300  
agaacatttc tttanattct ttgtccctaa ttctaagttt totatttatg ggattcatcc 360  
tacccaaaca accaaatttg aatttatanc aattatattt tctaaaatgt gtttagtaag 420  
ggttttgggtt tcgttaagag ttaatgaact g 451

<210> 30866  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30866

accatcacat gtgggactaa ggggcgggcc ggcgattgtg cacaacaagg ttttcacatt 60  
cacaatgggc gcataaaccc aacaatccct tgggtgccacc ttcaactgag ctcaacgtac 120  
tccacgtaag ccatatcctc gtttctctca acaccgggtc cccatcaatc ctctcaagct 180  
ttcacaacat ccaagcagaa caacattcaa acagcacaag ctatcacagc ccagcaaaac 240  
agagcaaagg gaggaaaact cttgctcaac accaaccaaa atcacagctt tttctcgctt 300  
aaaagacccc agaacaattc cttcgatcca aatcgttaac cggttgatcg actcgaaaat 360  
tntaatggaa gtctctagta cataagccta catn 394

<210> 30867  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30867

ntgactcgga tatccgattg aggcccaata tatatcatcg ccctttatat atagaaatgt 60  
actgaccacg caaattcgga cagccataac gttagactcg gattcccgat tgaagctcat 120  
aatatatgga gatgggtctta ggataaaaat gaagcccatc gcanatacaa acgaccataa 180  
cttttccacc ggatctccga ataagccaag taacctatcg cgatgctcaa aatttatcat 240

ggaagactcg ggtgaattcc gacgggctaa actttttact cggatgtcca attgaggccc 300  
 ataatatatc atcgccctcg aatatagaaa tggactgacc acgcanattc ggacagccat 360  
 aacgtttgac tcggattcct gattgaagct cataatatat ggagatgctc ttangataaa 420  
 aatgaagctc atcgcanata caaacgacca taacttttcc accggatctc cgaat 475

<210> 30868  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30868

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 gaccactgtc cctcctttct gcggtgcttc ttttcatgtc cgcttgagtg ggcttataac 120  
 ctaaaccata tttcccacga tttccttggg tttttatcag gctaattatg ccgccattgt 180  
 cttttgctaa acccatcccg gggttcataac cgttcccaa cataactcgg gccatca 237

<210> 30869  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30869

tcaagaaaaa gatggcctca gcanattcct tatttccaga agggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttattg 120  
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata ccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataactata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaanac gagtacaata caacttanaa gccaaaaaca 300  
 taataacatc tgccctggga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420  
 ggataaatgc actaactcat gagtatgaat tatntagaat gaatgcgaat gaaaatattc 480

<210> 30870  
 <211> 309  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30870

agcttcatca tttcatttcg aggggtctcg tatattacgg gactcaatcg gacatccgag 60  
aaaaagtatt tgtcatttgt atttgctcag agcatcaaca ttcaatttcg agcgtgtcga 120  
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aatttgctca 180  
gagcttccgt attcaatttc gagcgtctcg aaatattaca tgactcaatc agacatccga 240  
gtaaaaaatt attgggtcgtt gaattttctc anagcttcaa cattcaattt cgagggtctc 300  
gatatatta 309

<210> 30871

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30871

ntgagggatt tcanacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60  
atcgagacgc tctaaattga atgttgaagc tctgaccaa ttcaaacgac gataactttt 120  
tactcggatg tctgattgag tcccgtata catcgagacc ctcgaaattg attgttgaag 180  
ctctcagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgaat 240  
acatcgagac gctcaaaatt gaatgttgaa gctctcagca aattcaaacg acaatagctt 300  
ttttactcag atgtctgatt gagggtcgta atatatcgag acgctctana ttgaatgttg 360  
aagctctgac caaattcaac cgacgataaa tttttactcg gatgtcttat tgagccccga 420  
aatacatcga gacgctcgaa attgaat 447

<210> 30872

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30872

agcttactat atttttttat agtttgcgct atctaaaaag actttntcan aagggttggt 60  
ttggctttta taataaaca gccgagccga gctgagtctt acatagaccg agtaaaaggc 120

tcttgacaag ctgttcggct cattntcatc cctatttcta atgataataa tgctcataaa 180  
 aaaatatatt attaaataat atcaaaatat tcaaataaaa aatttagaat aaaaaatgat 240  
 aaaggagaa aacataaacc taccgcgaat cagcactgtc tcaactcttc gacacctaac 300  
 tttattttct attntgctat ttctagatta atcacaatga ataaatatta atta 354

<210> 30873  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30873

ntgtntggag cttctatgga gaatgaagaa gaagaaagct acgtgagaga gggagaaaaa 60  
 aggcttctga atttctttct tttggctgag tgaggagaga gaacagtttt ttggttttta 120  
 actaaaaggt ttttctcttt ttctattatt ttatttaagc tatgccacat gtctccattt 180  
 gagtggagca aaaaggggccc actttctctt ttgattgtga cccataactca gccacaaaaa 240  
 gtgagaaaaa acctaaccct tgaaacgcta aaatcttgcc tcggtttgcg tgccatttct 300  
 ctggttccag ttcctcgcgt ttctctgcgt ccgttggggc cagttttcga aagtaagcaa 360  
 tatatatatc aaaacgatca g 381

<210> 30874  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30874

tgcttcattg cctaacaggc caacttaca caggcaggtc ccaagagact cagcataatg 60  
 atgcatangc ccaaagttga gtatggtgaa aagattgtat gacccaagtg aaggtgcaaa 120  
 attgcaaaaa aagaatgaaa agctatacca aagcaagccc acaaagaaaa gggaaggaag 180  
 tggtagcttg aacnccagtg atgaatcctg ggacatttga gggcaaattg tttccaagaa 240  
 ggaggtaatg atgagaatct tgaaactgac caaatacagg ctaaaggccc aagtggagaa 300  
 nggatgaaag ccagtgagg aaggacaaag ccccgagtg gagaaggatg aaggcctana 360  
 gacagagaca ttatcaagac 380

<210> 30875  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30875

tctagtcctt cagataagtg tatattncgc agttatggta tgttggttaac aacacatata 60  
 ttgcacttag aatttttccaa gatgtctata ttgaagtgtt taatgggttat gtactgtcag 120  
 catacaagat tttgcacttg tcaaccaatt aagagtcatg tttgggtgtga ttttttgggt 180  
 ggttattttc aaagtcaaca aacttactat agaagatgtc ttgtgcttgg atgatagtgt 240  
 taaagcactt tacgataatg tcagagataa tgtcagagca tatacatttg tattctatat 300  
 tgaatatcta ctttgtgtgac tcgaaacata caatctatat actcagtact tcgactagtg 360  
 gctgctaata taaacttttg taaacaa 387

<210> 30876  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30876

agcttggatg tgacttanag caaanaagaa ggcttcctgct ttccgtggac aaatggattg 60  
 caaaccccgga tggtttcggt ggtaaaattt attaaaaaac ttccattttt gcaggagaag 120  
 gtgaatgggtg atgggggggtt tgtacggggtt ttttaatcat tgtgcgaacc ttggagatgc 180  
 tggtagattg tagaatgtac tgaaatgtgg ctacggacca aaattatcag aacagaacac 240  
 aacagtcttt gtttttggtt taatttattc atgtagagaa gtttattatg ggagt 295

<210> 30877  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30877

ctttatatca tgctgttctt attacagtca tagagtcctt ttcatagctt atanttttga 60



tcgttagata tatacgggaat ttggggggtcg atggattaaa taatttttgc ctataaaaaa 120  
atttgtgtcac actacagctt agccatgttc actaccctaa acaaagtcaa tacttggtta 180  
gatcaatgta tgaacgtgta taacgcatac atgtgcatgc atgaccaca agtgcataac 240  
tgaagccac ctttgtcctt cattgccacc aacgaagtca agtcaccaa ctttacttta 300  
cttcaaccac aagggtgtaa ttcttcggta tt 332

<210> 30878  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30878

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tttggttact ttgtataccc cctggtgacg tgcttaagcc attntactta agtcatttct 120  
cgcttaactt aaaaataaaa taaatttcca ccgaacgttt gaattgtatt atccattaac 180  
ttcgggttaa ataaattccg accgttcggt cgtgccgtaa ccacgttgga aatcaaaaag 240  
aggtaaaaaa taatacaata atcaaaaaga catcttttag taaaataaag cgganaatca 300  
agtggacgtt ttctctttgg gatntctcat tcttaatcga attgattaat aacta 355

<210> 30879  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 30879

agcccggcca ccgcgagctg aacaacagac ccccccccc gagaatgagc tgaaacgcca 60  
aaacccccga agagagccac actcagacca gcgttaatcc acaccacgc ccggaaggga 120  
aaacacaacg cacaacagaa cgcacaccgc cgaaaaggaa aacaacggga gaaaagcgca 180  
cacgaccgga tagaaggaag caggcgaaca gcgaacgacc cccacaaacg gcgacggacg 240  
aaacacacgc caaaaacacg ccaaagcagc agcggagggc ggacaaggac ggacgcacag 300  
caaaggggac cacacccgac aacaagctcg aaggcgggca aaaggcgcgc accgcgaaca 360  
ccgagcccga aagcagcaac tacacg 386

<210> 30880  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30880

ttgcttaatt atatgtggac taaaccggtc cattggacca tgtgtatddd gcctatccta 60  
 gacaacctat ataacttttt ttttatttct gcagcgcatg caaaacgaac tcaactggctc 120  
 ggtttttcta ttcaactaaa caccttatat atactttatt ttaattcact ctntttattt 180  
 ccatttatca tattcatctt ctcaacaacca aacacagatt gccgtatata aatcatgtaa 240  
 ataattttgg aaaaaggatg catgaatcta tgagaatgaa aatgaaaaca tggattcgat 300  
 atncacaaat atgatgaaat ggtgggtgca 329

<210> 30881  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30881

cgtcccacta cattccacac gccattccaa tatctgcgaa tttttttent cnnntaccgc 60  
 ccaaccagag cgcgttgac cgtggttgat ccttttctat aactgacctt taaatctcag 120  
 cttgcgctag ggcaagtgca tctgatgatg gttgcctatg tatttgaaga cactctctag 180  
 acttcaagcc attgacacca ttggctagag aatgggtgatt aaatgggagg tcaagatatc 240  
 tagcgaaaga ttacgatcat tgactgagag tggctctgcat gatcagtatt tctctgatgt 300  
 atctttgcca ggattatcaa gaactctatt tttcgtgctg tattaatgga acgatatatc 360  
 tgtgttactc ctggaattcg aacacctagt ttcttttttt tgattgtgaa ccatacataa 420  
 tccaaataag gatgctttgt ttatttgcaa actaagcaaa tatctaaata tattcttttg 480  
 acaactgcgc ggtaataaga catcaaaaag attttctgct tactccactg ctgaactcac 540  
 tactttttctc tgttttattga tgctc 565

<210> 30882  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 30882

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acaaggaaaa tgatagaaaa caggtaactg aacaacttgt gcgattgtgc gattgttctg 120  
acagttgata cattatcatc atggtggatt gtgactntgt gagttgtggg attccttcta 180  
tatttaacat ctttgaaaca taaagcagcc actggatgtg gatgttgaat cgtgttatct 240  
ctgcatcacg aattatgttg cgtccttggt gtatcggtgc ttttggcatt gaatttcaag 300  
agtatgatta taaatgtcca gttcttaatc ttcccggcaa ttaaagcaat gctagcataa 360  
gttttttaaa agatata 377

<210> 30883  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30883

ctgaatntac taggttttaa natataaaga taagagggaa aaaatatcaa aaatactcac 60  
aatacttgta atctttccaa tgcaaggagg tgcactctaa atactataat ttggtttgcc 120  
gctatatcca acaatcttca agttggggctt aagggataga tagccaacat ggattgaacc 180  
ttgtctgtag cacaggaatt aagaaaatca tttgcttttg actgtatgga tagtgactcg 240  
tgtattgact tcctttccaa aatctttgtc gtcctcttaa ggattntaat ttgctgtttt 300  
agttaatggc ttactgctat agggattcaa ttcccaagca ttagnttntg ctnttgtttt 360  
tcttttcttc ttataataga aaaaactaan aaaggcaaaa ttaattgagt tgggaatgga 420  
tctttngcaa tatttttatc actatatgga atcata 456

<210> 30884  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30884

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ataccttgcc accttaccta ggtacaggtt tcacgactct tttgttggtt taactacaac 120  
 ggtcttcgta ttgtttgttt gtttggggaa gtcgtgctca ttgcaacaat agttgtttgt 180  
 ttgtgttgca aggagttggt ttgtggaact catgctcgct gcaaggaatt ggtgtgtgga 240  
 actcgtggtg attgctanng gctgttgggg tgctgactat gcaaaccgtt cgggggtggtc 300  
 actcgtgctg gcaaggtgtc attttgagtg agggtaattc aaatgttntg tgtcctttga 360  
 atgcttaat 369

<210> 30885  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30885

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 aactccgagt tcttagatta taaagatatc cttgtaccac tacagcttgg tatcatatca 120  
 ggacaataag ccttctgaaa tcgagacaag agagtgatcg ataccgctgc tgacaagtgt 180  
 aaactacacc ttgaccgtga atactatacc agaccctatc ctaagctagt tactaagaga 240  
 ttatatagag tattgcgcat acacagtgca tgtgagatat tatcactact catacactca 300  
 attcaatcga tctatttgtc tattcacgag aactcataaa ttctcttctc tatactagaa 360  
 tctcagcgag atctcctcat aatgtgcacc tacaccgaga agcaaacagt gcatcaatta 420  
 ctattcatca gctatcagtg ctattttctg gtctctgagt cctaagacta attct 475

<210> 30886  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30886

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 caatgttttc ttttgtcatt ctacttatgt agtagaatat agtataccag ctccatttac 120  
 aaagacttga aaagactaac cattccttcc atctttgagg taaatngacc accacattgt 180  
 tgcttcagtt ttgtcaaaat acttctctca tgatcatcat tggcactctt gtcaaaaagg 240

agccttcgag caagcttctt cctacaagca atcacgcaag aacatgtntg actattcttt 300  
 tgcaagcatc ttacagtang aaaaaaggta atgatgacac tcaaattagc cacagaaagc 360  
 agaattcaat gatagactac ca 382

<210> 30887  
 <211> 588  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30887

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 gacgagcaac ttgaccccat ggatagaacc cantgggaan ancacacaca ctcagaanac 120  
 ataacgatgc gccgcgggac cagcagacag caaggcagaa ggatagcctc gcggtacttg 180  
 acaagccctc tgcgagacga gcaacggcgc tgaccgccat gggcaggagg aatcgccact 240  
 gaaacgcgag gccagaagc tccacggccc cagccgcac actggtgac agtgagcggg 300  
 ccgaatcccc tncacgaga ggagctgcgc cgagatccca ggcgacagca cgggtggcgcg 360  
 acgaagaagg gaaagaacag tcaggcctcc aaggcaaagc caaaccggg taccctgtgc 420  
 cggctgaacc cgacaggagc acacaggat gctcgcttga cgcgacacgc cccggagcac 480  
 agaccggcgn ccaatagacc cagccgccc caggaggcag acacacaatc gggacacggc 540  
 agaagaccag cggtcacaca aaaacggaga cgaagagacc ggcccgcc 588

<210> 30888  
 <211> 628  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30888

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 agatcgata nngtatannn annnncaacg agtgtgcntt ttgatgcctt tgtaantcca 120  
 tggcaaatac aaactcggta ctctgtgatt ctctacactc gacctgcacg catgcacagc 180  
 atgttccgat tatttgtgta tatcatcaca tgtaggtact attgaggatg tacgggcaaa 240  
 cggtacataa tacaatatct cccatcatct atcaatatct acatatacaa ctccatccat 300

ccctctagtt gtccactct tcacactgaa gcacacatta cgtcacatcg tagccactta 360  
taccgcgata taactcatac acctgagccc tattctatac ctacataagc tttccaccaa 420  
tcattcaagg taatttaatc atctcactca tctcaatatt atctaaaacc aatcaactat 480  
agtgaacata gcacaatata ttgaaccata cttactccta aataataatc ttctacaaca 540  
tatatgaaac cctcataaac aattacgtat atcatacggt tcatcattct aagaatttat 600  
atggatatcc ctaatcatat gccataat 628

<210> 30889  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 30889

agcttggtga atgactggac atgatatatg tcagggtggt ggttcggaca gcagtccagg 60  
ggtaaaggga tgtcccacat tatttccatg acacgcgcgc aacaatgatg attcagaaat 120  
tctatgcaaa actgggcaca cattcaccta tgtggacact caagcatcaa gatttggtgg 180  
tcacgcgaca ctatggctca ggattcatta tttttcctat ttaagtcaac tcattgtttc 240  
caaaatatgc tccttgatca aatcatgcat tcatctgagt ccattttggg cgttctggaa 300  
aattatctca acattcacc cttcaggtgcg tacatat 337

<210> 30890  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 30890

atgtggaagt cggcctatgg atcactacat agattacaga gacactaatc acgcataaac 60  
cctccatagc atgatgtcct aattcaactg aactcactta ctacaacgaa gcccatatgc 120  
tcgattctct caacactcgg ggccgaatcc atcctgcaa gctgtaccaa cctccgcgta 180  
ctacaacatt caaacagcac aaaataggca tccaggcata acaaggcaaa ggcggaacac 240  
tctgccctaa acaccaacct agatcacagc ttttatgact gaaagacctc agtaacaat 299

<210> 30891  
<211> 320  
<212> DNA

<213> Glycine max

<400> 30891

tacatatgta ctgacctaga gccaacataa cactataggc atgcatcatt accgttgaca 60  
ctgcagccga tgcgattact atatgctaca tgctccatat tgataccaat ctacatggca 120  
caccttcaat acgtacactt ggcaaacaca ttcaactctt caacctcatg ctcacgcttc 180  
tctttcacat cttcacctaa tggcctacga tgaccttcat ttgcatgtac tgtctgacta 240  
gcgtcccgtc ttatcttcga cagcatcatg catatcctct tcatgcgcca cgcacgaaga 300  
aaactgtaat tatctatcgc 320

<210> 30892

<211> 97

<212> DNA

<213> Glycine max

<400> 30892

agctgtttga tatattatgc tectgaatcg gacctcctag ttctaagtca tgaccattta 60  
actctcctga tagcctccgc agatcaatct tgagcct 97

<210> 30893

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30893

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gattgatgtt tataatatat cgacacgctc caaattgaac aatggaagct cttgagcaat 120  
tcaaattggtc ataaatagtc actcggagggt ccgattcatg cgcataattt atcaagacgc 180  
tcgaaattga acaacagaag ctttcaagaa attcaaattg tcataacttt taagtcggat 240  
gtccgattca ggcacataat atatcgagac tcacgaaatt gaacaacgga agctctcgag 300  
aaattcaaat ggtcaaaact tttaactcgg atgtccgatt caagcacata atatatcgag 360  
acgcgcataa ttgaacaacg gaagctctcg agaaattcaa atggtctaac tt 412

<210> 30894

<211> 240

<212> DNA  
<213> Glycine max

<400> 30894

accatagtca tggataggaa ccggaagaag acgcccctaa tatctgtcac ctgtatcaga 60  
tatcatggtc agaagctttt cgccaaactc agcaatatga ccaatgtata tgcggacata 120  
gcaaaatgct cccagatgct caaagagtga gcatctggcg ttgaatattt ttctattctt 180  
cttagcacaa ttggaatctc tatgagcctg atactatcac cttatctcat aaaagatcct 240

<210> 30895  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 30895

agcttgactt gagtcatgaa gagaatataa atatgtggcc atgttatgag gtttatataa 60  
tcatecttcc aacgatctta tcaactatca atcattcttt ggatcatcct atctttcaat 120  
tcttttttaa catccattgt caaacatttt tcaatgaatc tttcaatagt ctttctatgg 180  
aaattttcga ttcattttctc 200

<210> 30896  
<211> 259  
<212> DNA  
<213> Glycine max

<400> 30896

accctttatt gctaattcat ctctagaac tcaagtacaa agtctacctg acaatctttc 60  
attctacttt acttggcata atacattaca ggacactaaa cccaagtacc ttgtaccaac 120  
ccaagctgct tgtacaacct atataccagg ccccttgatc attctaaaac caagatccct 180  
tategtactc tacactacac accatgcaag tcaagtaaca aacaactccc caactttgca 240  
cactcatcag gatgcatac 259

<210> 30897  
<211> 574  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations





tgttcttcaa ttagaattgg agttttacct atgtaatata tgttgatctt ttatagaaga 120  
 ttttattacg tggattatca agatgaaact ccaattctga tcggagaaca aactaaaaa 180  
 cacttaagaa actacaccta agttttgtcc tttattttat agtaactttg ttcataaagt 240  
 tactagaatg atcaataaac tacaaatttg tggttgaata ggaactgaga cgtttcccaa 300  
 ctctccaagc cgaaatagca gcagctacaa atgaggcttt agagagggtc cgcaagaga 360  
 gtaagaagac agctatgcgg cttgtggaca tggaagcttc ctatctcact gtgg 414

<210> 30900  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 30900

cagttttcca cttgtactcg tgataaaatt aaagaaacat gtttagattaa gtatcccaca 60  
 atttaagcaa gaataacttc attttggctt ccaaccttac tggatatctag gcattactat 120  
 gtaacacata cgttttctac tatgacatag tgcataagat ctaccaataa ttttcaagta 180  
 ctaattaatt aaataattga aagttgaaac tacactatcg atatacattg attagcttca 240  
 caacttgcta aactagaac actgaaacat tcttcatttt acacaaaaaa tactaataag 300  
 aaataaaaag actgcgtggg gttggaagaa ccaaaacgta gcaaactaca ctataactca 360  
 ttgcttaaag catgaacaat cttaacctga ggaaaac 397

<210> 30901  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30901

ntgcggattt ggtcttcgcc agagaattga tcgatgtgtt ttctaacaga ggcaaatttg 60  
 atcatcctac taggacgact gagaaaactg gggcaaatga agaggggtgag aaagagggag 120  
 aaacccatgc tgtgactgcc attcctatac ggccaagggt cccaccaaac ccaacaatgt 180  
 cactacttag tcaataacaa acctactcct taccaccac ccagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaaa cctgtctacc gcacttccaa tgacgaagac cacctttatc 300

acaaaccaaa aaaacacc

318

<210> 30902  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 30902

agcttatgtg attatagtag ctacagctgta tcattgggtt aagaattggg gggcattgaa 60  
cttttggctc ataggttaca gaaagaggta cacagagtca ttggtttggg tggaggaact 120  
gataacatga tgcttactgg tgaaagcttg ggacatagta ctgatcaatt gtactcccag 180  
aagagactca taaagggtct ccttaaggcg cttggttctg caacatatcg cacctgcaaa 240  
ctctaccaga tctcaacatt ctcaagacag ttcattacct ataactctaa acttgatttt 300  
taaaaatgaa gataaagttg gaggtgacat ttattattca gctgtactga tatgagttaa 360  
taattcacaa aatcctacct ttt 383

<210> 30903  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30903

cctactccac caatattatc tttatataa gtgtatttat nctatattac anctctacna 60  
caacagaaaa ttgagcatga anctttgaac cagcagaccg ggatcttgga gcaccagcag 120  
cagcagcggt ttctcattcc tctgtttacg agcaaaagta gacagcctac tcgtagact 180  
aattaaaact aagattccta ctctatccta tgctggacta gaccagctta taagctgaca 240  
aagttagacc aattagccta agcatagcct cattcccgtt attggactag atgagaccaa 300  
caacattatt ctaacagcat atcttaaacc aaacttaatc cgcaaccctc attaagacta 360  
gattcatcct gctaattaaa gttaatgcac agaaatttcc atgctaagta cctagcctgc 420  
cacatagggg gacgaccaca gctacaaatc tatcacttaa tgagcatgac acacg 475

<210> 30904  
<211> 305  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        30904

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agcttatgga ttatagtagc tcagctgtat cattgtttaa agaattgggg ggcattgaac   60
ttttggctca gaggttacag aaagaggtac acagagtcac tggtttggtt ggaggaactg  120
ataacatgat gcttactggt gaaagcttgn gacatagtagc tgatcaattg tactcccaga  180
agagactcat aaaggtctcc cttaaggcgc ttggttctgc aacatacgca cctgcaaact  240
ctaccagatc tcaacattct caagacagtt cattacctat aactctaagc ttgattttta  300
agaat                                             305
  
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<210>        30905  
 <211>        411  
 <212>        DNA  
 <213>        Glycine max

<400>        30905

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tgtaagtatt cgtgactcat gagattcatg gaaagtaagc atttgttctt actcaagtat   60
gtagaattat taatttttgt tgttatcctg actctggaga tctgcagttt aaccatatgt  120
tttatggaat tgttcaatta caacatagtt cacttttttag taaatattaa aatgaaagtc  180
tacttgtttt acagagataa atagatgttt tgcattggtt aattttgtta attagtgtga  240
gcttgaagat gtatgctaaa atgactctgt tactagttaa atttggcaaa aaaataaaaa  300
taaaaatcag cattctacat ctacatcggg ttagaccaa aaacgatgta gaaactctac  360
attctacatc ggttggatct cataacgatg tagaaacttc acaattctac a           411
  
```

<210>        30906  
 <211>        93  
 <212>        DNA  
 <213>        Glycine max

<400>        30906

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tagcttttta ctctatacta agtaatgagc ggctacttct gagacagata tatatacata   60
tatacatata tatatatata tatctataca tat                                93
  
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<210>        30907  
 <211>        400  
 <212>        DNA

<213> Glycine max

<400> 30907

agcttcatcc tcagatccct cttgttggac taggcttaat ttagacagcc ctccctaggtt 60  
tagactaatt taaactaagt ttcgtcctca gatccctcat gttggactag acacagctta 120  
aatagcttac aaaagtttag actaatttag cctaagcttt gtcctcatat ccctcttatt 180  
ggactagact tagaccaaac aacattattc taacagcata tttaaaacca aaacttaatc 240  
cgcagatccc tcatttaaga ctaagtttca atcctgcttc attcaagttc taaggcaaca 300  
gtacatttcc caatgctaaa gtcacctaac catgcacaca aatggttgat cagacaaaaa 360  
gcatacagaa ttttaagcact aagagaagca ttgaacacaa 400

<210> 30908

<211> 372

<212> DNA

<213> Glycine max

<400> 30908

tactgcgaca tgaaagagtg gtcagcgctt tcagatttct cctagcccag caggctgtca 60  
tgaggactct ccacatgcc acacacgata atctttcata accttcttcc gacaatgac 120  
tctcatgcag ctcatactct taagactgtc actctatatg acatgctcca tattatatgc 180  
agcatgcagg tcatatcacc accatatact atatggactg ctacttctgt cgacaagac 240  
agtctcttta gaatctataa ctgatccaga cccaaccgac tggagtgata cctatgtaag 300  
agcattcctt caaacgtttc tttgaatctt caatacgag ctacatatc tcaaacta 360  
gcaccgtaca tg 372

<210> 30909

<211> 402

<212> DNA

<213> Glycine max

<400> 30909

agcttcttat ccaaggctca tcttggtggt gaagctcctt ctccatggc ttattcctta 60  
atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agccccacaa 180

gcaagcttcc atcatagaag ggtcagaatg gtcgaggcag atcaaagtca agagggaaaag 240  
gtcaaagaaa atttcaaagt ggcattactt gttggaattg tgacaagaga ggtcacttca 300  
gcaatcagtg taagccacca aagaagatca agtcgcacaa aaacaagaag cgcgatgatg 360  
atgaatccac aaatgcagca actgatgaac ttgatgatgc at 402

<210> 30910  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 30910

gcgcgggtct gggagacgaa gggcaagtgg aacgttatat acgattatga tgttccgagt 60  
acattggatt tggtagcacc atgccctcct gatttccagg tgggaaattg gcgagaggag 120  
gaacgccctg acattgactc agcgagcata atgtcaacct ttacggatct aaaagctcta 180  
tagctgggcc taggcttttag aagttttcct ttggttaagg ctttgtgact ttcgtttttg 240  
aatttataat acaaggacct tgtttcatct gttcctacgt atctacccat tctcattcat 300  
ttgcatgatg acttcttttt ctaaaacggc agatccgatg acgagtcctc cgaaggtatt 360  
aatacctggg acccgccctat caacttcgag caagagatga atcacaccga atatga 416

<210> 30911  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 30911

agcttgtaat atgtctagcc aactatatgt tcagttactg gtggcctgtg gaagatgatt 60  
gggttttttta ctgcattgta taatgaatga tcgaggccgt acccgaatca aataatcatt 120  
aaaaatacag tatttaggaa gtgacccctag gtcgtctccc aacgagcaat ggtcaaccaa 180  
atgttcataa cagatagtaa taaaacagta acgaattggg gggggggggg tgtttgttta 240  
tagaaactac acaatcataa aattctaatt gtactatatc agagataaat catgtagtat 300  
caccttgatt cacaagctag gttcttatcc tatgatacca tgatttatt 349

<210> 30912  
<211> 428  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30912

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tacttgcggtg atctgaagag gttgtctgag ttctgggtcaa gttactgtga gcaaagaaca 120  
tactactact gttctgtggg gcatatagtg atggagctta taaaattgat tagtggatat 180  
ggggagaatg gtagattgtg gcttatgggg attgcaactt ttggaacata catgaatggg 240  
caagcatgta acccctccct tgagactatt tgggatcttc acctctttac agttccagtg 300  
ttactatcat ccttgagact agcttaactt ttgataggag ataattatcc ttctatatac 360  
ttcttattta tgcttgagtg tacaatattg atttcttagt gatattaata cgctgggtgtt 420  
tttgtctc 428

<210> 30913

<211> 133

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30913

tctacgctta ccgcaggagg agacatacaa cgaggagaa actccacgtt gtacgtcgcg 60  
cgcagctcgt caacttggag gaactatacc gtgttacatg cgctgctcat gaagacgatg 120  
tataaaccca ctn 133

<210> 30914

<211> 319

<212> DNA

<213> Glycine max

<400> 30914

gtaatgaacg atatacctgt gagggacagg gccgatacgt taaccactat gaaagtggaa 60  
acaattgact tcccatgcga tctatcaagg acacgcgttg taataagacc accgacgagt 120  
acctttggta gagaatccca caccaaccta taaaagacga atccccatgg tgaaagtcaa 180  
tgaagaatta ttgctcacag tttttgggtg accacacgag atcggtacta gaggctcgct 240  
ggctagactg ttctttcttg cgaatgtgga ggagcatttg cggatgtgat taccataacg 300

ctaacttgaa tatccccga

319

<210> 30915  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 30915

tcatgatgaa tcaagatcgg ttcagagatg ttctgatgat atcaaagatg aagaccaagg 60  
tgatgacgaa aagctcagcg ctcaatcata gaatgagttc aagatgggtca agatagaatc 120  
acgatcactt caagactcac gaggaaagtg gaagaactct tcgagattca agaggaaagg 180  
tgagtcctag aatcaagaat cagcattcaa ggatcaagct ttcgagaatc aggatcaaga 240  
ttcaagactt aagactcatg aatcatgaga aggcttaatc aatatcagta tgaaaagggt 300  
tcttcaaaaa ctaagtagca catggatggt tctccgaaca tgtttaccac agagtgttta 360  
ctctctggtg actgatcacc agactgctgg aatcgattac cagtagcaga atg 413

<210> 30916  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 30916

agcttctatc caaatggact taccttgaat taattcctta gatagccctt ttgagccttg 60  
tttctttttc cttgtttaga agctcactac aatccttatg tgaaaaacca tgatattacc 120  
atataccttaa ggaatttttg agctttggaa ttgttttggg aataacagtg ggggggtttt 180  
gtttcattga acaacttgta ttgttggtta tgcttcatga tgtatgttg gccatacttg 240  
atgtacattg tatatgggat aaatgatgga catgctgaat gaaatgttgt ttctcaaagg 300  
ctatacagta aaaaaaaaaa taaaattcga aaaaaaaaaa cgaataatag aaagagatca 360  
gcaataaagt tgagtgaata agatctt 387

<210> 30917  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30917



tgtatacatg aatttgattn ttatgatgct canaacctat atgttgggaa acataaactt 60  
catcttcagt gatccattta gggaaacact cttgacatcc atttgggtcta actntaaatc 120  
cataacataa gcataagtag taatcttacc acttctagtc tagctatcgg tgcataagct 180  
taaccaaaga ctatactggt ttgttgggtta tagctcttga ctactatcct tgccttattc 240  
ctagtgatca aaccatgttc attcaattta tttttaaaca ctcatttagt gtaaattgatg 300  
ttcatgtttt taaaataagg tattaattcc catatatcat ttctttttaa ttggttcaac 360  
tcctcatgca tggacatcat ccagaactta catttgagtg cctcttctat agacaatgg 419

<210> 30918  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30918

agcttgagtg cttntgctgc aggacaagct gcagccttta agatgtttga aacaattaaa 60  
aggaagccag aaattgatgc ttatgacact actggtcggc agcttgatga catccgtgga 120  
gatatagaac ttagggaggt ttgcttttagt taccctacta gacctgatga actgatattc 180  
aatggattnt ctctttcaat accaagcggc actacaacag ctttggtagg agaaagtggg 240  
agtgggaaat ccacagttgt tggtttgata gagagatttt atgatccaca ggcagggtgaa 300  
gttctcattg acagtatcaa cctcaaagaa ttcaaactga aatggatcag acagaanata 360  
ggcctagtta gccaggaacc agttctcttt a . 391

<210> 30919  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30919

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tactcaaaca ttggttacct ctttttagtn tagctcattg ggggcaaata ttaagccact 120  
cattaagatt atttttattg acaacatgcc tgtgtgtaaa atgatcaatt aggatttgac 180  
agtggtcaaac aatggttntg gatttgtatt cagctcaatc tatgcaagaa aaacaaaaaa 240

ggggatgagc tctgatacat gcagaacata attaattcttg tcacctgctg gaaactggct 300  
 aaatccctgt ttatatattgg ctgttgaatt tcatggatat gctgcttgaa gatttgatta 360  
 gattataatt tatacatatg gtatgacttg tga 393

<210> 30920  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 30920

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 ttccgagtac tttggatttg gtacgaccat gctctcctga tttccagctg ggaaattggc 120  
 gagtggagga acgccccggc atttacgcaa caagcataat gtaaaccctt acggttttta 180  
 aaagctctat agttgggcct aggctttaga gttttcattt tggttaaggct ttgtgtcttt 240  
 tgtttttgaa ttataatac aaggatcttt cttcatctgt tcttgggtct taccattct 300  
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtccccga 360  
 atgtactaat acct 374

<210> 30921  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 30921

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 ttgaatagaa taaacaatgg ccggtgtcgg tcgttatatg gccccgactg atatctttca 120  
 gccgacattg cgcaatttct tttaaaaacg cttgccgata atgttttttt tttttttacg 180  
 gtagaggaag tttttggttt tgggtgttgc taaaaattt acaacgtaag tcggctaggt 240  
 ttttccgtgc gagctcaacc gagggttcgc tcccacagac actggcatgt tgttcttctc 300  
 atttatgagg acaagataac gttggcccat cccggcaaaa acaaataaaa aacattattc 360  
 accgaaattg atcgaaaaaa atgatatgctg acgtcggaat gg 402

<210> 30922  
 <211> 384

<212> DNA  
 <213> Glycine max

<400> 30922

agcttattct tgtctgaggc atcttccaag tcaatatctt tttcttcctt gagttcatca 60  
 tatatccaaa acggaaagta atcattgctt gaaagttgat ctggaagagg atctgagttc 120  
 ctccttctac ttgccatttc catcaaaagc tttccaaaac tataaacgtc ggccttatat 180  
 gatactccac caatattttt gtagtataat tctggagcta tgtagcccaa agttccaatt 240  
 gcttcaggtta aaacaagaga cctatctttc acaggatgta gctttgcaag tccaaaatct 300  
 gaaacctttg ggatgaagct ctcatctaga agaatattgt gtggcttgat atcaaaatgt 360  
 agaatttgca catcacaacc ttca 384

<210> 30923  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30923

tcccgatatcc gtacttgga g gatctgatt actgcctttc taangcaata tcagtataac 60  
 tccgatatgg ctcccgatcg cactcagctg cagaatatgt tcaagaaaga gggtgaaacc 120  
 tttaaagaat acgcacaacg gtggagagac ctggccgcac aagtggctcc tcccatgggt 180  
 gagagagaga tgatcaccat gatggttagac actctgccag tgttctacta tgagaagcta 240  
 gtaggttaca tgccgtccag cttcgccgac ctagtgttcg ccgggggaaag aatcgaggta 300  
 ggattgaaaa gaggaaagtt cgattatg 328

<210> 30924  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 30924

agcttgagct atcagaagac ttgcttattc atttagtggt gatttctcta ccttcacagt 60  
 ttagtcagtt taagatctct tataactggt agaaggagaa atggtctctt aatgagctca 120  
 tttcataccg tgtgcaagaa aaggaaaggc tgaagcaaga aaggactgaa agtgctcatg 180

ttgtgagtac ctctaaagac aaaggcaaaa gaaaaaggac tgaggagccc aagaatgaag 240  
 ttgttaaggg tccaagacaa aagaaacaaa atcaggggtga caactttttc tcttacagta 300  
 agcgtggaca tgtagagaag aaatgtaaca aatatcatgc ttggcgtgca aagaagggtg 360  
 tgtttcttac tctagtcta 379

<210> 30925  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30925

ntacaacacg gccaaagtga tcttntttgt ggggaacgat gctctggtct tccaccatga 60  
 cttgtccata atcattccgg caacggagga aatcagaact tgtgagaggt tattaatgac 120  
 tntataccag aaccatctga aacaaattaa gaagatcgaa caaaataaaa gtgaattaat 180  
 attgcacatc tatactaaat caaatgattt gaacaaaggc ttaactaact aattatgagt 240  
 ataccttgta gctgcatott ctggaagatt ttagaatcga tcacagatat gattggtggt 300  
 tacagcgtga atggaagaag actgaaaatg cctatgatgg agtagctatc caatacttga 360  
 tcattctatt ggttgatca acttctcgtt ggtatataca ggaatggtct tggatc 416

<210> 30926  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <400> 30926

agcttgaaga ggatgcttta atggaggaaa agaaagaggg agagaagtgg aactttgaag 60  
 tgtatctcat aagactttca ttcacaaag ttacaacaag tgttacacat gcttctatct 120  
 atagactagg tagcttcctt gagaagcttt cttaagaaaa cttccttgag aagcttcgtt 180  
 gagatgctag agcttatcta cacacaccca tctaataact aagctcacct ccttgagaag 240  
 ctagagctta gctacacaca cccctctaata aactaagctc acctccttaa gaagagaagc 300  
 tagagcttag ctacacaccc ctataatagc taagctcacc ccatgacaa aatacatgag 360  
 aatacaaaaa aaaaatccta ctacaaagac tactcaaat gc 402

<210> 30927  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 30927

tacggaccta tgaaactcag cttttatcca gggtcatctt ggtggtgaag ctccttcttt 60  
 ctggcttatt tcctagtggg tgacgcctcc tctcacctct tctcctttgt cttctgctgc 120  
 atctccatgg tggaaaataa acattaaagg acctcattga agctcaaaga tccagcctcc 180  
 atagaatccc cacaagcaag cttccaccac aagtagtata aaacggtaag aaccgagtat 240  
 cgaactctcg gggaacttgt gttatctggc aagctatttc gataaataag cgtctggtat 300  
 ggaaatataa ctgtgggtat gaacaggtat ttaaactatc taggcaaaaa gaaagaaaat 360  
 cacgtaagag aaatactatg taaaaacaag tagagaaagc gttggtc 407

<210> 30928  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30928

agctntgcgg atttggctct cgccggcgaa atgatcgaag tgggtctaaa aagaggcaaa 60  
 tctgatcatc ttgctttgat aaatgcaaaa aaagactggg gcaaatgaag aggggtgagga 120  
 tgaaggagaa cctcgtgttg tgactgccat tcctatacaa ccaagtttcc caccaaccca 180  
 acaatgtcat tactcagcca ataacaaacc ttctccttac ccaccgcca gttatccaca 240  
 aaggccatcc ctaaaattaa ccacaaagcc tacctaccgc acatccaatg acaaacacca 300  
 cctttagcat aaaccaaacc accaaccagc aatgaattt ttagcgaga aagcctgtag 360  
 aattcacccc aattccagtg tcctatgttg acttgctccc ata 403

<210> 30929  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30929

ntanagactc aatttcattt gaatgtgggt gggacatata ttgagttggt tattaaatca 60

atattttattt ctaatttgga aaaatttagt tatttcttggt caatttgaaa taataaagtt 120  
 agtctctctc gtgattcaaa tgttgtaagt tatgaattct tttatggata ttgagtgttc 180  
 ctattggaaa caattttaag tgggtacaaaa cttaaaatta aatgagaatt tcatcacttt 240  
 ataacataag tgctaagtca tatctcttaa tagagaattt ggatgcttgt gttataagaa 300  
 attttgatc ctttatattg gttggacctt atagtctaca ttgagtatat aaaggcacia 360  
 taaacaaaac aaaaaaatgg aattcatgtg ctgaaagaaa taaggatgtc ctggaactaa 420  
 tacata 426

<210> 30930  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30930

agctttgttg gattttctgcc atttggctct attttgatac ctatccatat aaaataataa 60  
 atattttagt caaaaaaata tatacaagtg ctttacaaga tcgttagtgc aacatttgag 120  
 ttccatgtcc ttattttctaa aagttggatg aagaattttc cttgagaaat cgaccacccc 180  
 atgtccttat cacctttggg aaataaattt ccttttgcaa agttcttatt tctaaacttt 240  
 attctacatt ccatgtgatg aagaatttga cagtctgttt cttcggatgg ggaccatttc 300  
 acaaaactct aagctttcca gaagaatata gaaaaccacc gcataatttg ttttcataat 360  
 tatacgacct tatgatatta gtcaatgact atntaatat 399

<210> 30931  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30931

tcatgatgat gaatcaagtt gattcaagta gttttaatga tgaanaagat tatgacaaaa 60  
 agcctaaga atgatttcaa gattaagttc aagatcaaga ttaatttcaa gattcatcaa 120  
 gaagattcaa gattcaagaa taatcaagat caagattcaa gactcaaaga ttcaagaatc 180  
 aagagaagac ttaatcaaga taagtattaa aaagtttttc aaaacattga gtagcacaag 240

aagatttcac aaaattatta ccaaagagtt ttactctctg gtaattgatt acaagaatgt 300  
 agtaatcgat taccaatggt nttacaacgt taagatnttc aaaattcaga atgaagactc 360  
 acatctgttg atgtgtaatc gattacacct 390

<210> 30932  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 30932

agcttctctt ggaccttgaa caagcaatca actcctcttt cagaaccctg ctatgtgctc 60  
 gcgactgggc cctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120  
 cgcgaaatgt gttccggcca tactcttctt tgcgagccct cttgggtctct tgttcaaggg 180  
 ctcttgcggt aattgcattc tcttcccgtc acccggcaca ctcttccga acgtgtgtag 240  
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300  
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact cttaacttgg 360  
 cgagccaatc taaacctcgc atgc 384

<210> 30933  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30933

gentnnanca aatcatataa gataaatgca ttcattgcaat ctgtagatat atcctcccaa 60  
 acgtcaaatt ctccgcctat atattcaacc tttccatcac tggcacgtgg agtgaatctt 120  
 totccatggt gcaatactaa agttatattg tcattcattc tacacaatta gaaaccgcaa 180  
 acatggtcag atattangaa ataaaanaac ctacctcaaa aagcggaag acattgacat 240  
 tgtcaaaaac cggaagaca caatcaataa ccaaaaacat tgtcatctat aaaaacagag 300  
 catcataaac gaacatatta accgatcata aacctcccta 340

<210> 30934  
 <211> 396  
 <212> DNA

<213> Glycine max

<400> 30934

agcttggttaa tccatggaag ctcctaatat ctcccacact ttttgggggtg ggtcattctt 60  
ggatggcctt gattttctca ggttccactt ggaacccatt tctaccaact acaaaaccta 120  
agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt 180  
tcctaaggat tgaaagaact tgcctgagat gtccctaagt atcatctagg ctctactgt 240  
aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
aatgcataag cctcataaag gtgcttggtg catttagtgag cccaaaaggc atcactagcc 360  
attcatacaa accaaacttg gtcttgaaag cgttttt 396

<210> 30935

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30935

ctggggaata atatttaaca actggagtat tgaacttaac ccacaacaag tttctagcta 60  
tatgaactaa tatatgtgtc acttctaagt tttctatggc tgggtactttt aggtaaagac 120  
tggaagacc agcttggagc aaatatcaag agtttattgg aatcaggtaa gctaaaagct 180  
aatagtcttg gccattctt tttcttatcc atgcaccttt atgtacttga gaatccctaa 240  
acatacatgn taacaataat tttccccata tgtaaaataa cttgacaccc tcgaacttct 300  
canagtcatt ccaatttcta ttcgattcgc cattgttact ggtattntct acagattatg 360  
ctctgtcag tgttttgtac catcaattgt 390

<210> 30936

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30936

tcgcgcctca cacngccata taanactttc gttgtaatan ggtcaagtat acatgtactt 60  
gttttaccac tacacaccna nccccacgaa gcacatttga agcccttgag nccntngtga 120



aaaccagtca agaacacgag gaacctcgan agacgacctg caagcatagc agattgtata 180  
 ggaagttata caggctgaca agagagaggg acacgaacgg aactttgaat agcatctcag 240  
 agacattcctt cacaaagtac aacaagcgct acacacgctt ctagttataa acaaggaaac 300  
 acccctgaca atcctactga agaaaactct ctagagaagc attatttgaa tgccagagct 360  
 ctacgacaca cacaccatct aaaactaagc tcacctccat gagaagctag agccaatcta 420  
 cacacacccc gttaaataac taagactcac cttccttaag agagagcaag cgtagagcat 480  
 taactaccac accctctatc atcagctaca gtcaccctc catgacagaa aaccatgata 540  
 agtcactaaa aaaatcctac tactaagaac actcacaagc tccg 584

<210> 30937  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 30937

catcactcga cccggatcct tagagtcacc gcggtcagc tttcttaacg gctgaatctc 60  
 tccttaggct tatgttacta tttttatggt tcatttcttc ctgagggttg ctgagccata 120  
 gatctgaatg aagagacact agtgattcat gtatcctttg tctccttttc cctttctcca 180  
 agacctacag cgtgtcaaga aggatataaa agagaaaata ttggcttccct ttggctatat 240  
 gtattcctta gttagttggt cctaccttat catgtgattc tagatcactg tgaaatgaat 300  
 agaaggacac ctattgaatc atattttgaa tactagatca attctgctct gtctgtatat 360  
 attgtggcat acgaaattat ctattgtgga atttccacaa agccttggtg ggatc 415

<210> 30938  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30938

acggacctat aaaactaagc ttagaccgag cactcaaatc taggatctaa aacccttcta 60  
 tntagggatg ttcaagggtg agaaggaaaa tgaaaatggg gtaaattngg agcaaactct 120  
 cacctcaaaa aagtctatat catcaatcta aacttgctca aactggtttt accaagaana 180  
 ctctaccgaa tcaaaagttg actcctcaac acccatatct taccctagaa atggctcttg 240

cctttactttt ggtcatttgt ttttctctct tgcactgccc aagctttctc ataagtccta 300  
 tatgacattt caaactatga tttacttact ataacctgta tttaccactg aatcccattg 360  
 tatgcctcca actctcagag cctcactctg tttctactca taacactaca ttctca 416

<210> 30939  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 30939

tgcagcttgt atgattatgg cgtacccatc acatgtggca ctaggtggcg gtcaggcgat 60  
 ggtgcacaac aagttgtcca cattcacaaa tcgcgcataa aaccacccat cccctggtgc 120  
 ccacctccaa ctgagcttac gtacttccac gtagcccata tccttgtttc tctcaacacc 180  
 gggtgcccat caatcctccc aagcttccca acattcaggc tattcaacat tcccatcatc 240  
 acaaacttac 250

<210> 30940  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30940

ggggaatttg aaaccctgtt agagaccgta gctagcncag agccacaaga tcatactcgg 60  
 gcttctccga tcggcatgga aactgacagt ttcattgaaa tatctaataa gctcgcccaa 120  
 agaagggggt tacgattgtt ggcaagcacc atatgatatt gaacacacac tccctccttc 180  
 ccagctatct ctcttataaa ctctctagct tgtactactaa tactccgatc tctagtctga 240  
 acctaacctat gatcatttgg ttgacaacct ccacaacttt tacgtggtca tagacatact 300  
 tctctttgag catcaaatac cactgctctt ttctgatagc cttcaccaat cacatataat 360  
 tatttttatac agcacctctc ttattgcacc atacttgccg gatctacact atgctgttct 420  
 ccacctctga aacatatact cctcgaatcg cagatagcat gctaccacga ttctaacaga 480  
 accccg 486

<210> 30941

<211> 270  
 <212> DNA  
 <213> Glycine max

<400> 30941

taatatcccc cacacttttt ggagtgggcc attcttggat ggcttcgatt atctcagggt 60  
 ccacttgga cccattttcta ccatctacaa aacctaagaa tactatatta tctacacaaa 120  
 aggtacactc ctctatatct gcatagaagg tgttcttcct aaggattgaa agaacttgcc 180  
 tgagatgtcc taagtgatca tctaagctcc tactgtacac taaaatatca tcaaaataaa 240  
 caactacaaa tctacctatg aaatccctta 270

<210> 30942  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 30942

agcttatcat tcaagaatth catagttttc ttgtaattct cccattcaat ccatagatca 60  
 tgtttacttg catccatggt ttcataatca tgatgagttt gtaacactct ctccatagat 120  
 catatctttc ttcatgtagg tgatcatgaa gttctttgag gtgtttcaac tcaacttggt 180  
 agtctttctag ttggttttcc gactttctgaa gatcttccaa aaagtcagac ttttctttac 240  
 aaattttctt attttcaaga tggagctttg tagtctttag tttacgatct tcaaagacaa 300  
 catgctccta agtgaaaaat tctaaaaaac tattattcct ttgaagttgc ttatgatctt 360  
 ctgagaggag tttgacatat t 381

<210> 30943  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 30943

tgcacaagat ctaaagaaaa acagataaca caactcttca tgcaaccgag gatctaagac 60  
 agatttaacg tggttcagca atgtgcctac atccacgaga aatggcagct catcatcatc 120  
 acattgatcg tgaaaaatta caagttcaat acaagcagca gctagcttga tctctctcgg 180  
 tttctctttt gcaaaacctc tctcaatctc atagctgtct ttttttttta aactctctct 240

ctgggttttct gcaaaaaaac tctctgaatt acatgatcaa gagtatgtat atactctagc 300  
 tggtagctct aggcacaaag gctatacttt ggtgccaaga ccaattcagt tatgacaact 360  
 gaattca 367

<210> 30944  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 30944

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 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
 tttctggctt cagtaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240  
 tgatgggtggg ggcaactggc acatagtttc ttaaactctt cccagtactc atacaggctc 300  
 tctccactga gttgtctaata acctgagata tccttcctga tggctgtggg cctggaagca 360  
 gggaaaattt tttctaagaa tactctctt 389

<210> 30945  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30945

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 atctgcatc atcatgggta gcatcgagaa aagtttctaa gttaagaaaa tttcttcaga 180  
 ggtaaaactc tctatttaata cgatacagag gtgtcggaat cgattcaaca agctgggtga 240  
 agcttaaaga gttaagtctc atatcggttt aatccgatac aatagtactt taattgattt 300  
 cactgctgtt agaccatgac tgatctttnt caggagtctc aactttaatc aattaccagt 360  
 ggattaatcg attacttctc tctcgttcaa gtgttcaaag gtgaactata acactttaat 420  
 cgattatat 429

<210> 30946  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30946  
  
 agcttgtagt gaggtttgac tacaaaaatt cattggtttt tctaggattc aaaggtttag 60  
 attctaagag agcacaagtc ctagactaat cccaatgata ttttcttggt ttgtacaaat 120  
 agccttctca ctattgcctt ttcttaagtt gcttttgacc ttattgtaac aacataactt 180  
 attttctctc tttttttaca ttcaacttat ttgatgtgtg tcttgatgct taactttttt 240  
 cttttcattc ttttcaactt ttctcccca aatttagagt aaatatgcct tgaacaatat 300  
 gctctcctag aatctaaaca aggtattagg agataatcat gtaaagttca gggttcaatt 360  
 catgacaaat caataagctn tatacaacgc agcaaaagat 400

<210> 30947  
 <211> 90  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30947  
  
 agtacgtgaa ggaactcttg aaaaatttta gatggacgat gcaaatatat gaaactctat 60  
 acatccacca ctatattaga ctagatatga 90

<210> 30948  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30948  
  
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 tgaattgata atttgggtgtg taattgaagg ctcttgagtt ctgtaactcc tgttgatgaga 120  
 ggtaatggga gcacaggata tatgtatata aaggcaagtt gtgtgggcct acgggaagta 180  
 tgattttttg tcgggataga aattggaagg ggatacattt gtaggttttg gttattcttg 240  
 tttatgcata acttgcagaa acacctataa cctgacactt ttatgtgtgt acaagttctt 300  
 aatggattcc anacatccat gatgatatga aaataagttg aattatttat ccagaagatt 360

gtgaaagatg tttccctgac aatattcttg ttattggttt 400

<210> 30949  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 30949

tcaagaataa tggctctcatc aaactattta tttctcgaag ggaattctat aaataggcct 60  
cctattttta atggcatggg ttaccattat tggaaaaccc gcatgcaa at ttgtatagag 120  
gctatagatt tgaatatctg ggaagccaca gaaattaggt cctacattcc cactatgggtt 180  
gcaggaaata cacccataga aaaacctagg gaagaatgga gtgaggagga aaagaaatta 240  
gtttaatata atttaaaatt caaaaatata attacatatg ctttaggaat ggatgaatac 300  
tttaggggtat caaattataa aaatgcaaaa gatatgtggg ataccctaca ggtaacacat 360  
gaagatacaa catatgtaaa aagatctagg ataaatacat tgacacatga atatgaatta 420  
tttagaatg 429

<210> 30950  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 30950

agcttaatcc cttgataatt gagggtagga gatttgcctt ggattcagct agggactact 60  
ttccttagca cccttatggt caatatgttg gataaataaa aatagttttt ttttgctata 120  
tgcataataa tttcgatgct agttatcaca caaatgtatt atacataagt acctatcaca 180  
taaagagtgg ctatgcaatt tagaatgcat caagaagttt tagattacgt ggctacattc 240  
tttggaacca aaggcatcgc atggaaaaat tactacatac ccatatctaa tgggaatttc 300  
tattttccta cttggctttt gtgagggaga tgccaccaca cgttatgcag gatgggtggaa 360  
gcagtcaata ttgtatcatc atcgtgattt tgcaaaaaat att 403

<210> 30951  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 30951  
 agttgggggtc acttataaatt taactcattg atttgtcaag aaaactattg gaaaaacgag 60  
 agtgtgtaat gatttttgtt ttttgtcttg tatgaacatc ctatagtaaa atttacattt 120  
 ctctctatat gattaacttt ggattttgag tcatacctta tccaaaacta ggcatacatg 180  
 actttttata ctggtaaagt ttataaaaatt ttgttatatg ataagtataa gttatgcaat 240  
 agttttataa gtactctata gaaggaaaaa aatgtaaact tgagttttta tataaatttt 300  
 taatcagata aatatattta tgtataaatt tggtttgggt tggattagat tgaattttta 360  
 aatgaaatcc aaaatctgat tctatccaaa acatatgagt ttgttaaatt tt 412

<210> 30952  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 30952  
 agctttgaga aacaagtgat catccattgg caagtgatca tccattggca tcatcaaaac 60  
 attcagcttg atccattatc tacattatgt tgacaccaga gccatcgcca actaattact 120  
 aatcagtacc atgataggga ttgttacagc gtagattttt gcacaatagt ccatgatcca 180  
 gttattttgc aacggaataa ggtgtggtct tggcatgatg agtactaggt ccacttggac 240  
 attttgata gccatgaagt ttatagcaaa ccatggcagt gttccctagt ttctcatagt 300  
 attgacaaat aacattcttt gttatgcctg aaaatatgga tctgccatat gttgaagtgg 360  
 tttgttaaac atccgcaaga ccatgttttg atagtatgg 399

<210> 30953  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<400> 30953  
 tatgttaatg ggtcttaaga ggaaagctca ctaacacaca ctcaaactta cttattaaac 60  
 atgctcatga aaactatttt ttctcaatta aaataaatcc cttttatttt cctacaccaa 120  
 taaccctaac tagaattaat taattaatta att 153

<210> 30954  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <400> 30954  
  
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 aaaaaagata aaaaaaaaaac aattagatct taaaaaatga acattaaaaa taggtacaga 120  
 agaagaagaa gaagcatctt caagaaaaaa aatacatcag catcttcact cactcaccac 180  
 gaaggttccg ttctctgtga atctatatat ttctagggca cgttacgtgg aacgaagctc 240  
 ttactgaat tcaatcgaag aagaagaaga agatggattg cgttgctggg tcgagtttgt 300  
 ttccgttgca tcgttgcaaa accattcacc tggttggtaa tttcactct cccctcttca 360  
 actcaccaca cacacaacac aattatctca ttcgca 396

<210> 30955  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30955  
  
 tgcacacaag tttctccttg cctagcactt canaaccttc tggttgggtc atataaatgt 60  
 cttcctctaa atccccatgc aagaatgcag ttntaacatc taactattcc aagtgaagat 120  
 tctttgtagc tacaatgctt agaataactc tgatggtagt catctttaca attggagaga 180  
 aaatctctat gaaatcaatt ccttgttttt gctgaaatcc tttcaccata agtctcgcct 240  
 tgtatcttct tctaccatca aattcttctt tttagcctata gaccactta ttctgtaaag 300  
 ctttctttcc ttctagcaat ttaattaaag accacatctt attcttctga agggatgtca 360  
 tctcatcttt ca 372

<210> 30956  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 30956  
  
 agcttttcgt caactttctt ccattgatct gggttgatct taacaccgac taacctacct 60



gaaattatca gccacatatg ccacggtggt gccctagtgt cttgagaatc atgacttata 120  
 gcatgatcca gtatgccctt atagtagatc gagctcttag cggatggact aattgtcact 180  
 aagatacttt aagtctatac tcacacctta cccaagagat gaaaaccttt agttaccatt 240  
 caaaaggagg ccatctgcta caatgtntat atatacatca tgtacctgat gttctacagt 300  
 tga 303

<210> 30957  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30957

ccagttctgc gcaagctgcg agaattttac ggtggtcttc tgatagcacc ctgatgtact 60  
 atggcagtg ctcctgtata gcttgccctac ctatccgccc cgctgagctc tgtagagaca 120  
 ctgggtggtg agcagctttc tactatgcgg cactactatc agttgcgaac ctatcgcaaa 180  
 cgtggagagg aacatgactg aaatcgtgcc gtaatcacgt ggtcataaac catcactcga 240  
 aaagaggagc tatgcgcagg atcctctgtc tcatccgaaa ttgtccgacg gatgcgctgg 300  
 gataaggaca ttgtcgactg ctngtcacac gagctatgta gtagcgcaca taacagggtga 360  
 gccgtgcatg gattgggtcca caagatgctt tcgagaattt gactgcctga acgcagacg 419

<210> 30958  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30958

aaagttcccg atcaaagatc ggaagaaagc aaaagaagaa aatttccgac caaagattgg 60  
 aagaaagcca aaccgaaaag aaaagaaaat tcccgatcaa agatcggaag aaaatgaaag 120  
 aaatatgcag aaaggtcttt ggaccaggca atatctgaac aatacagaat tgtcaccctc 180  
 aaataaggaa ataaaggaaa ccacgaccgg aagtggctct ctccctttga tcgccaacca 240  
 aaatcctgtg cgctagcgac tttctcacc cgcactaaac anaaacagaa aaagaaaaga 300  
 cccaaacact 310

<210> 30959  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 30959

tctcaaggaa gttntcttaa gaaagcttct caaggaagct acctagtcta taaatagaag 60  
 catgtgtaac acttggtgaa actttgatga aggagagtct tgtgagacat aactcaaagt 120  
 tcaacttctc tccctttttc ttccttcaat ttcggtgctcc cccctctctc tttctctccc 180  
 tctttctttt cctccattga agcctcctct ccaagcttct tatccaaggc tcatcttggt 240  
 ggtgaatctc cttcttccat ggcttatcc ctagtggatg ggcctctctc tcacctcttc 300  
 tcctttgtct tccgcttcat ctctatggtg gaaaaccacc attaaaggac ctcatgaag 360  
 ctcanagatc cagcctccat agaagctcca caagcaagct tccatcaagt ggtatc 416

<210> 30960  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 30960

agcttatgca tggattatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60  
 gctaaccatg cattaggtac catgttcaat tattttgttt ttgagtgaac cgggtttatg 120  
 atcccaacat gggtggctcg tgggtgcctaa cacatgaaac taagaatgta gtgtgaagtt 180  
 tcacgcttcc cccctttttg tttttgttat gtagaggaaa acgcaaggat gagcacacat 240  
 gaaaacaaat ggtatgcaat ttgacagatc aaaaagtttg ttgaacgcat atgcatgatg 300  
 atgccatgac tcatgcaaaa tgtgaggctg gaatatgata acggacaaat gcaggatatg 360  
 tccattatga tgttatgaag agatgcttat gcg 393

<210> 30961  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 30961



catgcatacc caaagcattt tgggggtacca aaaattgcac atgtacacct cttggtattt 360  
ctaataccta tacatacaca aacttttatga tgaatcttga ctatctacac aat 413

<210> 30964  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 30964

agcttctata taagctgaac cattttatca ataaacacaa gttgagttct attcagaaaa 60  
ttagagttta tctcttttat cttagtgaga gtgattctcc tagattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
agtgattctt tctttccaat catctccacc cttggtcttt caaaccacaa ttccagaaaa 240  
tccacctctg cccaaaatta tctcgtgaaa ggtctcgttc tgaaattcat tttacgctca 300  
cgaatcactt actttgagt 319

<210> 30965  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30965

tatgaccatt cgaatttctc gagagtttcc gttgttcaat ttcgagcgtg tagatgagtt 60  
atgtccccga atcggacatc tgtgtgaaaa gttatgacca ttcgattttc tcgagagctt 120  
ccgttggttca atttcgagcg tctcgatata ttatgacccc gaatcggaca tctgtgtgaa 180  
aacgtatgac cattcgattc tctcgagagc ttccgttgat caatttcgag cgtctagatg 240  
agttatgttc ccgaatcgga cattcgagtg aaaacttatg accattcgaa tttctcgaga 300  
gcttnncgtg gtcaattttc gagcgtctcg atatataat 339

<210> 30966  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 30966

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctccaa cgcgaacttt 60  
gaccattgtt cttccttccc gcaatgcttc tcttcatgtc tgccctgagtg ggcttatagc 120  
ctaaaccata cttcccacga tttccttgag tatttatcag gctagttatg ccgccgttgt 180  
tttttcctaa acccatcccc ggttcaaaac cgttcccca cataactcgg gccatcatta 240  
ccgctgcac ggacagacaa agttgcccaa agaggaggagc cacggaggaa atgctgacca 300  
cctcaaaaga ctggaaagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360  
aggatgggca gcttaccaag atatcttcct cgctgacac 400

<210> 30967  
<211> 296  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 30967

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cgatcatcgt ctccttttcc atcattgggg gtaccacctg tgccgtcaga tccctccacc 120  
ttttgggcgt gttctttgaa agatccgtac cccttattgt aaatgttatg tagttgcac 180  
ctatacggaa ccatatccga attgtactga tactgactaa caaaggcaac cattatgtcc 240  
atacaataat ggactcttga aaagtgcag ttagtgtacc atgtaacagc tcccc 296

<210> 30968  
<211> 375  
<212> DNA  
<213> Glycine max  
<400> 30968

tttctgaccg attgtctctc aatatgcacg ctccattcag ataccatgt catctcaggg 60  
gggtagataa ggaattgggtg cccaatcgtg aattctgtaa agccaactac cccatcaaac 120  
accttatgta tacctgtaag catttgatc tctattgcct cttcaacaac tgtatgatct 180  
gtgagaatta tatatgacac caattctcta cccgggtaac tcagtaatat ctttctactc 240  
cctatatgta tctaccctta aatgacctaa attccatcgg ctatttatta aaaccgatcc 300  
tttctggaaa gttattctcc ctctttaaca caatcggcat tccctccccg catttaatac 360  
cataatcctc gaccg 375

<210> 30969  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 30969

agctttttatc tgataatata taagattcag ctagcctatg aataggcgta gaaataatcc 60  
 taggcgagtt atattttgat agatctgatt ccgagagtca tatgtgtatg atgtgactta 120  
 gagtcgtcta cctatcaata gcgtctctaa g 151

<210> 30970  
 <211> 114  
 <212> DNA  
 <213> Glycine max

<400> 30970

tagcatgtac tatgatcttt gttggcgttc atgaagacca ttgtccgaaa gtagttagca 60  
 ttgaaaaacc tcgaaaccat agcattgggg tgagaaaataa acctccaccc ttgt 114

<210> 30971  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 30971

gctaagtgct gagttgagcg atagtgtttt atccttgttt gttcgggctc gttgaagcct 60  
 tatctatcat tcccgacatg ttgacaacct gtcgagagct aatagagtat gctggacata 120  
 aatatttgct tacaatgtcc aatgcaatcg cgccttgctc ataatgtggc gtatctataa 180  
 tctaatatct gccaatatcat aacatatttg aatacattgg aatattagtc caattataga 240  
 ctatctgttt ggagggggagc ccggctacta acggtcacac tttcactttc ctataacaga 300  
 ccagacccgc aagattgaca 320

<210> 30972  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 30972

ctgccacaca ccntggtaca tcnntataac atatatgata atataataat tagcacacn 60  
cacaccctnn tnnccnnccc caccagnaca gcnnccctga aaccctgttg anaccntagc 120  
tannacgnga cactatngaa tactgaagct taacaagntc atctatggat tgaacaatac 180  
ctcccgcta ttggtattac aatatccaga aggcatttcc tcattcagcg ttgaagagaa 240  
tgtcccgat cactgggttaa accacaaggg cagcgggaga aagaatcgtc tccttgatt 300  
atacatacca tgatatctta ctgcgacta atgataaggg aatgctatat gaggcgaaac 360  
aatctctctc aaagaactgt gataagaaat atatgggaga ggcaatttac gcataggcaa 420  
aatactcata acaaagaact cgaagcattg tatggttgtc cacagaacct atatcaaaa 480  
ggttacagag aatacaaga aagattgtca ccaagtgaac ctccaatgga aggtgacaac 540  
ttcgttgaag catgcccata atgaa 565

<210> 30973

<211> 294

<212> DNA

<213> Glycine max

<400> 30973

acttatcaca cggaagtccg attggagtgc ataatatatc gagaccctca atattgcaaa 60  
aggtagtcct aatgaaagat aaatggggat aactttttta acggaagtct caattcaagt 120  
gcatacaata ttcggaagct cgaaaatgaa caatggatgc ttctgagaaa attaatgg 180  
cataacttat cacacggaag tccgatttag ggcataata taccgagacg ctcatattg 240  
caactcgga gcaactcaaga aattcatgtg gtgataactt atcacacgga agtc 294

<210> 30974

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30974

accaccacc cactgcactc acctaatata gctgacatgt tgcacaatcg tacataataa 60  
cacaaaaach naaaanaaaa aacgagnnac attgaagcca ttggaagcca tgtagaatcc 120  
atggccaaca cnagctcnac acccgagaa ccacctgagg cgacctgcag gcatgctagc 180

atttgtgagc tttttaagtc tcagagaaac gagacaacgt gataccttac gacaggaact 240  
 ccgaaataact aatgagaact aggagtatca cctatcccac aacgacgagg tggaaggcat 300  
 ggccagcgaa gtaccaccat acacagtagg agaacagaaa ctagtcatgt actcaacagc 360  
 tataatctat gaacaccata ttatcccgtat tacacggccc agtacgcggg aacggacaca 420  
 caagcacaag caaacatcac gtgtgtcagc taacaacaac taaaacagtg ttagactaga 480  
 taagcacatg agagagacat gaatggaaaa gaagaccaac gccataaacc ctgagtgtaa 540  
 gaaattagac aaaatgacga acc 563

<210> 30975  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30975

nggatgccct ttgtgatact tatttgaaac ccatgggtcaa gncncncagn ggaactctat 60  
 aatagttgac acttcacagc atgcaaagct ttcttgtcta tattgtataa antatttatt 120  
 cttttgacgc atcatctgac ctcaatggca tatatcttta ttactgaata tcccacgtcc 180  
 tactcgttaa tcaagctatt cgctcaacac ttaatgtcac tatcttctga tatctgaatt 240  
 tctcactcac tgtaatttga tgatcacgca tctagtgcac cgaatttctc atcaacaata 300  
 cgtgtcctgg ctgccactat tatgtagata agatgctcat gtcaggtctc tcgagttaat 360  
 gtactatatg ctcccatctc ccccgagtcc caaagatcaa ccatctcacc cccgcttact 420  
 ttgttatctt tggacttgac attctcaact cactgcacga agtacacacg atcatcctat 480  
 ttctagtttt tgcttaccta tgccctactt attgtaccac g 521

<210> 30976  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <400> 30976

taatacatgc aattcatatg atgaaaacat ttatatcact aaaatctata gtaactaatt 60  
 aatttaattc tatacattat tacatagacg gaacgtttat accatgcac aactaaataa 120



accttttttag gaaaaaataa aataaataaa agtgaagaaa aaaaaagaag agagcaacaa 180  
aagacatccc gtgttcgagt tcttcattga taaaaactaa caacgtttac aagttattct 240  
aatctcaaaa aaaaatgaat cagcatagag cttcacatca ttattca 287

<210> 30977  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 30977

ttttggggac ggcaacaaac ccggaatggg ttttaaggcca aacaactacg gaccactta 60  
cctggtcaat gcctaataa atcgagggaa gtatgggtta agctataatc ccactccgc 120  
cctatatgaa aagaagcatc tttggaatgt agaacggatg ccaaagctcc cagttgtgac 180  
aagaatgtga agggatccca ccct 204

<210> 30978  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30978

agcttcatgt ttataggata aattattntc ttttgttatt cactgacctt aagccataat 60  
ttaaaaatga atattcacca aactgttaac aagcattgct caaacttaat gttatatttc 120  
tgattctgat ttctcactag tgaatttgag gatcagcagt agtgatgaat tccacagaag 180  
aagagtgtcg tggctgcgag attatggaga aagatgctca tgtcagggtt ctcgagttaa 240  
tgtactatat gctcccatct ccgtacgagt cccaagagat caaccatctc accctcgctt 300  
actttgtcat ctctggactt gacattctca actcactcca caaagtacac acgatcatcc 360  
tattcctagt ttttgctnta cctatgccat tactattggt accatg 406

<210> 30979  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30979

ntagcanaaa atttcgaaca actataggaa taacaatttg ttaaatttta ttaaagtcac 60  
 ttatttttatt tatataacta gtattttaat acatgcaatt tatatgatga ataattttat 120  
 ataattaaaaa tttataataa ctaattaatt taattctata cattattatt taatgtaatt 180  
 tttataccat ccatcaacaa aataaacctt tttaggaaaa aataaaataa ataaaagtga 240  
 agaaaaaaaaa agaagagaga aaaaaaaaaac atcacgtggt tgagttcttc attgataaaa 300  
 actaacaatt ttaacaagtt attctatctc aaanaaaaaa tgaatagcaa tagagtttca 360  
 catcattatt catcacattt gcaagttgat ttaattatga aacaatgata cacaaatact 420  
 cag 423

<210> 30980  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30980

agcttggttac ctattatgac tntgacgaag agcaacgcgt agccaatggc cattgaattc 60  
 ttttccttat cttccaatgc tgcccttacc gccgttagcc cttggccaaa agaatttgag 120  
 tatcatattt atatgtttga taattattat tattgttatt attttttctc ttgatgcacg 180  
 taaaagagaa taacctaaac ttttatatat gcgcattcaa attaaaacta acatacataa 240  
 atgggtcaatt aatggatctt acataatgac tcgttttcct ttgcttcttt caagagagat 300  
 catcatcaat tgatatggaa tcatgtgtgc ctctgcatt tagatctcat cccacagaag 360  
 aggagcttgt gnggtattac ctcaagagga agataaaactc 400

<210> 30981  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30981

gcactcagct atgtaggcaa tcgtgatctt tgtgggcctc cacttaccaa aatatgtttc 60  
 cagggtggtgta aacctaacaa cacagagcca atagatgaag atggagatga gtttgcat 120  
 ttgtcgtggc tttacattgg aatagaatct ggatttgcca cgggcttttt gggattttgt 180

tgtgtcattt tcttaatcag aaaatggagg catgcatact tcaagtttct ttatgacttg 240  
aaagaccaac tttatgtcat ggtggccatc aaaatgaatt cttttcgttg aggtcggaca 300  
caaccatact ggtaagtaaa acctttgatt agttgaaatt tcngttttta ttatacaaga 360  
taaacataga ccatatttta acat 384

<210> 30982  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 30982

agcttattca gattctgttt tacatattcg agaattacta ccgggcaacg tgaaagtctt 60  
aattcagtgg aaaaatctcc ctcccagtga acatagttgg gaatctgcgg ctaaattgaca 120  
ataggttatt ccgacttate accttgagga ctatgtgagc ctttttaggcg gaggtattga 180  
ttagaataag cataatccac acatcaccaa tgtgtacacc cgcataaatc ccatgggtgtg 240  
caaaccaccc aacatttaca acccacc 268

<210> 30983  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 30983

taggagtga ccattaaggc attgaccaac agtatgccat cttcttcaca gtgatattga 60  
gggggaaaga gagtgtgcgt taattaaatg ttttgaagtt ataaaccag tttacatgtc 120  
tctcattata tcggttgagc tatcttaaaa gaattgaaga tgtttttaaac tacacaacga 180  
gacatctttt ttttcatttc tataaattat accaatcgcc attgtaatat caagtttatc 240  
aagtgatctt actaagattt tgttaaaaat aatcccacat cgagtaattg atgaacatga 300  
taagtgetta tatagctagg tagaccaccc ccttatgaac cggtttttaa ggtgacctt 360  
cggatgcctt tgctacacta taaaatctga tatggtatca gagccatatt caacagccct 420  
gactcg 426

<210> 30984  
<211> 400  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30984

agcttgtaac tcataattnt tagttgaaat tgtcaatttt acacatgcaa tcttaattct 60  
 caacacactn tttggatgag tcttccaagg attgtgttgc cttctctaac tnttcttctt 120  
 tttccagcga taaggtaaag ctacaaaatt gagtcttcca atgtttgata taagttttgc 180  
 aagaccatct ttaattcgaa taagtggcctt aaaggtgtaa atgcacagtc cttccaagcg 240  
 agcaactcan aggtgtaaca ccatcttaga atttcgtatg agcatcttca atgaaaatgg 300  
 aagacttgaa cgaaaatggg tggcttgctc ctcatgttgc tgggaataga taaggatcta 360  
 tataatgagc acaatgtatg aaggatggaa naacttcaat 400

<210> 30985

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30985

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 tgcttccaaa gtttcatggc cttgtaggtg aagacccgca caaacatttg aaggaatttc 120  
 atattgtctg ctccaccatg aaacccccag atgtccaaga ggaccacata tttctgaagg 180  
 cttttctca ttcattagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240  
 ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattttc cctgcttcca 300  
 ggaccacagc catcaggaag gatatctcag gtattagaca actcagtgga gagagcctgt 360  
 atgagtactg ngagagattt aagaaactat gtgccagttg cctcaccat cagaattcag 420  
 aacagcttct tct 433

<210> 30986

<211> 397

<212> DNA

<213> Glycine max

<400> 30986

agcttgattt atagttaaga gtcacgagc cactatacca ttaactatga aaaaaagtaa 60

tgatcctttt gctttaatcc attatgacgt atggcggtcca tccccaaaat cttctatata 120  
 tgggtataga tggatagcga tatttgttga tgattgcact ccaacgacac gtattgactt 180  
 gatgaaacaa ggatatgatg tggtagacat acttgaacaa tctcatacta tgattcaaac 240  
 tcaatattca aagaagacta cgatccttcg ctctgatacc atgtataact gatatgatat 300  
 ttgcatatat ctcaatcgca tcttacaac ggaaatatgt tatatgtata tacacagaca 360  
 accctatgtc taattataac tagatcacga taattat 397

<210> 30987  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30987

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 aacttcgtac atcttcccat tgctactctt ttgcgtaaat atttgaaagc caaacatgag 180  
 ccacactatt tttaggttca gccttcatca atttgtctgc tgcaagattg gccctttcca 240  
 tgtcccatg aatttttaca gcccacagaa aagaacacca gccaaagaca tgttatttat 300  
 aaagtcttct gcttctttaa gctttccagc tctacctagc aaatcaatag cacaactgta 360  
 atgctcttct ntaggggacta ccccataaat cttttcatgg aattaaagta gttatacccg 420  
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<210> 30988  
 <211> 568  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30988

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 agacnaggtg atcctctaga gatcacctga gagcatgctc acgtgttttc gctattgtga 180  
 ttcaaaaaga cccgcgcctc tccgcacgcg cagcgaactt cataataagc ttacagacgg 240

agcacttaac agactaagca ctaggtcaac agaaaaacta ctacaaagaa atagagtcga 300  
 acatgattag gatcaggatc atgcaccaat tcgacccaag aatcaaagaa taggcctaaa 360  
 atgacaataa tcgccgaaca aagtgaacta caattcactt aacgcggaaa taaaaggctg 420  
 caacatactt gcaacaattt gcgacgatta ctatgagtga gaaagactct aacaggatag 480  
 ggagtatgtg atgcacactt atatatattg cgcaccttca gaagatgaat catgggtggg 540  
 agaacttaaa aggaaggtca gcaccccg 568

<210> 30989  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 30989

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 aatttgtgaa attccaggac atgccagaaa accaaaaaat attgatgcac aatccgtaag 180  
 tttccgtgac acaccggaaa tcaaatggaa gcatcggtgc ataattaagt gagattccgt 240  
 aacattccgt aagtcaaaaa ggggatgatt atgtaattcg caaggttccg taacattacg 300  
 gaaagaaaac aagtatcggt acgagaatcg taagtttccg taactttacg aacaaagact 360  
 caccaaaaaa ggaagggggg gaac 384

<210> 30990  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
 <400> 30990

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 tcggtttaca catcgactac gcatcgatac catacctcta tacactggcg gatgacgcga 120  
 ggtaattacc cttctacgct cattgatttc agaaaagact tcacgatcta gacgaacctt 180  
 ggcattgccg acttttcttc tttgtcaacc actgccatct tactccaccg tt 232

<210> 30991  
 <211> 392

<212> DNA  
<213> Glycine max

<400> 30991

taagcttgta taaattcttg tgatgaagca catttttgaa tccatctcta ttatcaaata 60  
aataaaggct gaagcacagt gcttcatgat atttcaaaat catggagaat caaactttcc 120  
atgatgacca tttgaacaac tatatttctt tggataaaac tttttgcact aacagattag 180  
tcacttaaaa gtatgatgga ccaattggca gcagatccag tcaaagtgg aaatacttat 240  
ccaatacctg ccataacttt aaaattatat acagatcatc actgttggtc tcccaaacc 300  
gtgcatttcc aattgcaaaa caaccacatg gcgatctaaa aggatttgag tccagaggag 360  
ctgcatcatt atacacaatc acatacatca tg 392

<210> 30992  
<211> 563  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 30992

ccctccgtca tctcgcacat cttnatacat anagaaagac tagangtata nancgctcta 60  
tagatgaagt acacttaaga aancnnnaaa ccagaggcaa cgttgaaccc tttgangccc 120  
atgtgcancc ccaggcgata ccagctcgac acccgagat cctctacacg catccgcacg 180  
cttgcaanct agtatgaaca tggatataggc catctagaac gtgccaacgc atgccatata 240  
cacgctgttt cgcttacgaa tcaatagcca gaagaggata aagcaccgaa atgaacaatc 300  
tgaaacataa agtcaactgaa ccaaaataga tacctacaca aatgggacaa cgcaaagcta 360  
tcactgccag actgagaagc aatgtttgat aggaggctac atacatacgt tttgctctta 420  
ccactcaaac tgaactaaat caccaatctt ttctatgact cacgcccac tacataatca 480  
aaaacttaaa cgcacacac ctgcctccgc atgactcaac gttcatagct aaacaaagaa 540  
ctatcatcgt ccaattaata acc 563

<210> 30993  
<211> 83  
<212> DNA  
<213> Glycine max

<400> 30993

gtggaactgt tectcaaggg attaaaggaa gagattatca ctaacgtgag gcttcatgaa 60  
ccatagaact agatggaagc tat 83

<210> 30994

<211> 368

<212> DNA

<213> Glycine max

<400> 30994

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atatggggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatttcctcg 120  
ggggctgtac acacttcaac gatggcctttt gctttggcta atagtcgagg gaggtcttga 180  
cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgca 240  
tcaatcacct ccctcttctt tcttttttcgg tgtacacttg tgcaaaatcc tctattagct 300  
tttgttcatg ggcatagac tgggtcaact cttccttgta ctgccctatg atagctagca 360  
tgctttgc 368

<210> 30995

<211> 387

<212> DNA

<213> Glycine max

<400> 30995

tcaaagatga ggtcaaaggc tacattctgt gtcaaatacc tgtgtcttaa cattaagggc 60  
tgatgggtat ttccgggttct ataaaaaaga cacatatttt tgagattccg atcacgcaa 120  
tgtgaccggg gttccgtgaa tgccgtaaaa acaatctcaa tgttataaaa agataactct 180  
taaaatgtct cattctctat gggtattcaa aggaagtgtg tgatcaccgc attacagtac 240  
cctgcacata gaatacacta tgaggagctc aaactagtta cgagaatgct tagaactcaa 300  
ggctaccta gggaaacttt gaaatggagg attctgagga ttatctccat ggaatcttct 360  
aggaggattc tgaggatttc actctga 387

<210> 30996

<211> 383

<212> DNA



<213> Glycine max

<400> 30996

agcttgattg caagttgctt tgtctatatg catcttaatt cttctagatc ccacccctacc 60  
attacaccaa gtgagactag atccccctga acagaggtgg gtgagatcat tctagacaga 120  
ccaattggaa aaatcttcac aagattgctt gaggggaagg tagccaccaa ttctttcatg 180  
tgccccctgaa accgcattga aatcaccaat gttaaaccacaa ggtccaagga agttgatcag 240  
catagaagag agctcatgcc ataagattgc tcttttaatg ttggaggtgg aaccataaat 300  
agtagctaca taacatgaaa tgttgtaaat agaaactaca aaagacatgc tttgatcaga 360  
gatagctaac atagacaagg aag 383

<210> 30997

<211> 311

<212> DNA

<213> Glycine max

<400> 30997

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gggagccaag ttatcccttg cgtactcgac ttcaaccatt tgagatagct gcctatgaca 120  
ccttggtctac ttccactaag ttctttatct tttctttctg ctttattcca ttccttatag 180  
atcctctgga gtgtctttac attagcttca ttgaaacctc gcgtgatgaa aggcgcgatg 240  
gtctcctccg atggtgcacc tctcataggg taacctaaact ggcttatggc caacatggga 300  
ttataattaa t 311

<210> 30998

<211> 377

<212> DNA

<213> Glycine max

<400> 30998

agcttgtaac tctgattcaa tgactgttaa aaacggttaa gatatactgc aaaattggcg 60  
aactttatcg ctatctcaag atttcaaacc atacaatgac tgtactttga aaaaaaatgc 120  
ctaacaacta tcttttagctt aaaattgcgt cagtagcata agaataatgc ttgtattcct 180  
ttgttcacaa tgtaaaagat aactgtatac cacaacaaat atttcttagg cgaaaagaaa 240



<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31001

gggattcggc tgggtctacat attcagtatt ctatngagag acttgtatac tatgatggga 60  
 agctgcactt gaaaatacca tcacattttc taaactggga tatttctgga tatacttcac 120  
 gtggaatcct caagttgact atcaagtaat tctgtcatca gtgaggtgat ctactttggc 180  
 attttctcat catttgaaag actcgcgatg caagctatat ttgaaagtct caaggatgta 240  
 tcagcctcta attgcatctc attgtcctca gtatgcaatc tatcgctttt tcacctaaaa 300  
 tgaattaaaa actatctcgg acatgaaaca actcctacag caaagttgct atcaatattg 360  
 tctagctcta tctatgcatt gagggactga ccacattgaa agtattgcgc ttt 413

<210> 31002  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31002

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 aatctttttc aacatctctt tcaataatca agaatctatc tttcaatctt ctctctcaac 120  
 atcattcaac tttttctaca gaagtttgtg attcttcttc tcttcatctt tctaaaagtt 180  
 tttgttcaaa actttttctt tcaagaaaag ttctttgatc aaaaacttgt gttattcatc 240  
 tttttttatt cttttctcct tttgccaaaa gaacgaagga ctaaccgcct gaattctttt 300  
 gtgtctctct tctccctttc caagagaatt caaaggaccc cgctgagaa ttcttttgat 360  
 tcttcccttt cccttanaca aaagatctca naggactaac cgc 403

<210> 31003  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31003

tgtaacgtgg tcatgttaac aagaaaatca tgggttttca tagattcaaa ctcttagggt 60

ctacgagagc attcacccat tgcattgtcta cttaaagaac cactttttct ttgacctccc 120  
aacctttatt gacatgccac aaataacaga acatagaggt tctttttttt tggtatgcat 180  
ttgctttcag ctcatatttg cttttttttt tacgatgata ggtattacaa aagaatgtaa 240  
atctgattct ctatgtatct gttactcata ttcttggaaca taatttaacc aaaacactcc 300  
cccaaatttg gaacaaattt gacttgatcc ataataatgc tctcctatag cctaagatac 360  
ggtgcacata gatagcattt acatttagct tanggttcaa tgacacatat cgtcacg 417

<210> 31004  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31004

agctttgagc aaattgtaat gacaataact ntatacacgg atgtccggtt gagtcccgta 60  
agatatcgag acgtcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120  
tntatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgcaa attgaaaacg 180  
gaagctcgta ggacattcaa acgacaataa cttntactc ggatgttcga ttgaatcggg 240  
taatatatcg agacgatcaa aattgagact agaagctctg agcaaattga gatgacaata 300  
actttataca ctgatgtgcg gctgagtcct gtgatatatc gagacgctca aaatttagat 360  
ccgaagctct gagagaattg aattgacaat aac 393

<210> 31005  
<211> 206  
<212> DNA  
<213> Glycine max  
<400> 31005

ctcgatatat taccagactc atgcggactt tcgtatataa acttattggc aattaaattt 60  
tctcagagct ttggagcaaa attgtgagcg tctcgatata tgactggact cattcacaca 120  
tccgatgaaa agattattgg cgtgagaata tgagacgagc ttccgttgtc aatatggacc 180  
atctctcgct atattgcgat aggcta 206

<210> 31006

<211> 391  
 <212> DNA  
 <213> Glycine max

<400> 31006

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agctttcttat ccaatgctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggca cctcctctca cctcttcttc tttgtcttcc gctgcatctc catggtggaa 120
aaccaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagtttcc atcagggttat ataagaggtc acatggtggt gtcctagaga attttctcaa 240
aaacccaaat gtcgacatag ttagtttcga gagatctgca aacaccatgt attcaaatat 300
catgggggtgt tggcatgtcg cttagaatth gatgtacatt aaaaatgtgg ctctcttctt 360
ttctcaaaat ggtgtttcat agttataaat c 391
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<210> 31007  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31007

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ctttagtagt tgggggttga gacgggctcg aagatggaat gttatttata acaactttta 120
ctaagttatt cacaacctct ttaagatctt caagagtga tttcatattt gagatttctt 180
gacatacctg tgttatagat atgttttgtg tctcatgeat aacttttccc tctccaacag 240
ttgaacacta ctgcaaaaat aacatactac gacagttctt gagtacattt aaagaccatt 300
ttgaatcatc tttgaaacca acatcgttga aagtcttgac tnttgacgac ggtnttcaaa 360
anacgtctt agaaaaaagt atcattntaa gacggttctt gattaagaac tate 414
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<210> 31008  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31008

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agctttctcc atttcatctt cattgtcaaa tctccaaat cttaatccat acagttgacc 60
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actcttgctc ctctgcgaag atatgaacac atctataacc ctccctatctt acggaagatc 120  
 ccccaacaagt tactaacatt catattcttt gggaatttag tgaaaaagaa tgtagtttca 180  
 tcacctcccc tcccttgatc acctttccgt gctctacccc tccactctcc atcctctctc 240  
 attttcctaa tgcacttagg gacacataac cccttatcaa gtaaaacaaa ttttaaaaaat 300  
 attcttggtt tatttagctt cttattctat taggattaat taaatatnta aaattcaata 360  
 atattctaca tatttagcta aagggaacta tttt 394

<210> 31009  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 31009

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 cgaaccctat ggtccgatga agacacaact catggtagac ttcttggaag aattcggttg 120  
 gaatgaccaa accaccccag actggtggag cttctacgtt gacggtgcat ccaacgtgaa 180  
 ggggagtagg gcatgaatca tctttgaagg ccctggaaat gtcactctaa agcaagccct 240  
 taaatttaac ttcaaagcct caaacaatca ggccgagtac gaggcactca ttgcaggtct 300  
 aaaactagca acaaaagttg gggccataaa gctctgatgc tacacggact cgcattctgt 360  
 ccaggggacag gttgccaact gataccagac caaagagaca atgttgctca agtactacca 420  
 catt 424

<210> 31010  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 31010

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 catggtataa tctgtggata atggtatgat gataacctta tggatcaatg cctataccgc 120  
 aacgttaagg ggagaaacag aggcgtcctt ggagtgtacg tacatgatat tatagttgca 180  
 ggctatgagc ccggtttgct acatga 206

<210> 31011

<211> 130  
 <212> DNA  
 <213> Glycine max

<400> 31011

cgcaagagga ttggttagagg ggctatcatc caacgccttt atgtcttaca tctcaacgac 60  
 acatcttgat tgcaaataca ctttacctgt catcaatttc catacacatg acattgctta 120  
 cccagacgct 130

<210> 31012  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31012

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 atacatagca gaacaagttt tgtgttgat ctcgacatga caaaaattca ttntgttgat 120  
 atacaaaaaa tataggttta aatatgtttt tatttcctat aaaattaaca agttatgatt 180  
 ttaatcctta taaaattttt tctttagttc taatccttca aaaagttgaa attttgtttt 240  
 tggccccctac aattatgcaa cactcattaa ttgcttgcac ttgacaaaag gtcaagtgac 300  
 catcccaagt gacaccact agtggtttatt tttttgggtt agaccatagg tattctccat 360  
 tggaggaaat cctgttcgag atggatagga t 391

<210> 31013  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 31013

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 ggcgaagtcc acttgtaact tcaaagtatc aaacctttca ccaacaaagg tttgaagacc 120  
 atcgaacctt tccaaaatct ttgaaagaag agatgaatct tctccaccat gtccttcttc 180  
 atcaacatgt cgagcaccct ttttcaccca agagccatca tgctcttttt gataacccaa 240  
 ggatgcaatg acagaagttc ctattagaaa ggatctcttg attggaacat agggttcaga 300  
 atcaagaggg atgttaaagt gttgaaggaa aagggtgact acgtgtggat atggcaatgg 360

agcattcaat cgcaatgcct tatgcatgcg atatctaaca agatgtgccc aatcaattt 419

<210> 31014  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31014

agcttcccat ctctagcatc cctcttgaac ttcaaatacat actgatggaa cttccatatg 60  
 tacttcaatt tctcagatt cctatagaac agagttgtgg gtatgttctg aaagtaaatac 120  
 ccaaagtcta ggccattctc atgcagagaa tcaaagatgg ttttttgagg ataccctttt 180  
 gctaaactgcc tcttgatatg acttggtgaa ccatgagagg ttgctgagta cacaaaaagc 240  
 ctattggggtt gtgttggacc aggaattgaa gaanaccacc tgtcaaaaaac agcaaattcc 300  
 ttaaccaaag cagcataaat cggcacagag tccggtttta accctttcat gacagtctca 360  
 gagaggttgg gagacataga caatgc 386

<210> 31015  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31015

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 acttccgcaa aaaaatatag ctggtgtaat gggggttgat ttggcgtgta aggattgatc 120  
 agtgaagcac ttcacttgaa aggcctgtac agttgtactt ataggtctga ttcccactgc 180  
 caacaatccc acttggtagg ttttattttt atggaaatat cactataagc tctcattgag 240  
 gattatgaca atgccctgcc ttggaatgga atagcctttc ctccccttaa aacttttgtt 300  
 tccaaaagaa gctgtcgtag attttggact tgtcacttat ggtaaagata tttataggta 360  
 tacatgtgct taanaggagt ntgacttgng attgatgaat gttgtanggg ttgaaattgc 420  
 a 421

<210> 31016  
 <211> 380



<212> DNA  
<213> Glycine max

<400> 31016

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tctattatga ataatgaatt taaattttac ataagaataa ttatgatagt taaaaacact 120  
tataaagaga tgattaaaaa aatgtacaaa tctagaagat aatattaata ccatacaaga 180  
ataatagaat ataatatata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatatata ctgtgtatat atactcaacc tcatgcatat accttcattc 300  
aaattaaata ataacctata acattcgagc tgcgaaatct gctgctctca tattggatta 360  
tgaattcttt atctaaacag 380

<210> 31017  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 31017

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cagtatgggt aaactatgat taactataaa gtatgatgga acaaatatga aaaggcttac 120  
cgactactgc tgattatgaa ataaatacac aacatacata gagtgaaatg agcatatatt 180  
tcatatgatt acaatgacaa ataagacctt attcatcagt catcaccaaa tgagcataat 240  
cacataaata aatggtcgga aatttgtctt aaattgaaaa ggaaaactgt gaggggccac 300  
gatcactgtc agctgtgggg aatgaataaa ttcacccatt cattcattga tg 352

<210> 31018  
<211> 167  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31018

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gctctgatgc cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc 120  
ccttgccgnc gcatcgaata taacattcga taatgtatgc tataccn 167

<210> 31019  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 31019

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 actctaatagc accttacatg taattgtaca catattatatt gcctatatatt gatgtttggt 120  
 gtttcttttaa atattgggtga tccttagtga gcttgaaaca ttaacgtgcg gagtaaaaat 180  
 tgcatttttg tttaatgttt caacaaaacc tttttttttt catttttttg gggggggggg 240  
 ggggggtgaac aaacaactga tgaaaatctc ctgtgataaa ctacaaaatc c 291

<210> 31020  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 31020

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 taatttggtt aagcctgaaa ttctgcagca ttgcaaagc agattcaaata taattgaagt 120  
 tatgtacaag cactggagct tatttaaggc agaaattcta cagcatctgc agtctgtggg 180  
 tggaaaaagg gtgggagtgg aaatttaaat ggagaagaca cttgtttgac agagaccttg 240  
 agatggcaga ttgtttccgt aatgatgttg ctggcaactg tatttacatt cacaaaaagg 300  
 atgagtggat ctggaaaata gaccctactg gacaatattc ggtaattaaa ggagagacta 360  
 caaacaaca caaatttgat gaggataacg gtggcaatta atgacacatt atgcccattc 420  
 t 421

<210> 31021  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31021

tgtaaccgag gcatgctaga cggctcttat atttacaaga aatccttcca ttgtaagcac 60  
 accacatatg aatgagttaa tttttggaaa tatcatcatt aatgataaaa ataaagatct 120

atggacatac aaacaccata tatatacgca ctgtaaacgg ccaagacttt agctgatata 180  
 agtgtcatct tctatactct ccctctcttt ctttatatat atgctgccag attgctcact 240  
 tcgcaaacia agaacattaa tgtccgcttc atataaacia actgttcact ctgctgctgc 300  
 ttctatggac agttaccaa tctctacatt ttctcggtac tcttcttacc ctgtaatcat 360  
 tcttcacgga cttccgaacc cggacacttt tcc 393

<210> 31022  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 31022

agcttcaaata ctagcttttg gaagagcttt tgtaaata tctgcacttt gatcttcagt 60  
 tctgcagtaa attagtttgg cttcaccttc tctctgtgct tcccttaaaa aaaaacttga 120  
 tcttgaaatg cttagtcttg ccataaaaaa caggattatt tgaaatggaa atagctactt 180  
 gattatcaac aagaatctgt gtaggctcct tttgttccat atgtaaata gcaagtatac 240  
 gccttagcca aataacttga ttcacaactg cagtggctgt catatatact gcagtgttgc 300  
 tagcctttgt ccacagcttc tttggcaact cttttttata caacatacac cttgtcatct 360  
 tcatgatatt tctattttct tctctcactt gtaccattct a 401

<210> 31023  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 31023

tgttgaaact aaggatggaa tagtgatgca ccagaagaag ttcatttaag attgtttgaa 60  
 gaggttcaac atggatcaat gtaataatgt agatatttcc gtggaaggaa atatgatact 120  
 ggatacaggc gatcatgaag cttcagtaga tgccacattg ttcaagaagc tagtgggatg 180  
 cttgagattc gtctaccata gtagaccaga aatctcatat ggatttggtc ttggcagcag 240  
 attcatgagt aatccaaaac agtctcattt ggcagcagca aatagaatct tgagatatct 300  
 aaaaggaaca cttaattatg gcatattggt tcctcatcag acagaaaaat gtgagctata 360  
 cctcgtagct tattctgact catactggtg aggggggataa gtggagagaa gatcta 416

<210> 31024  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31024

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 tcaaatgcta tcaaagctta atttaaaata tgtgtgcact ttggaccaca atgtgtgcaa 120  
 tttctgaaat ggggttcaat ttattataac aaatagtgat gtacataatg tttgtacaca 180  
 tttatatatg tgtggcataa tgaattatac tcgtaaatga aatatactgg tttaggattt 240  
 gttttatttc tgcatacctt agcaaaggaa acaactcttg taaatttgtc aagttaatat 300  
 ccaaaagctt tagctacttg agacgcacga tctgcatatg ccaaaaaata ttatcgtttt 360  
 ctccatcatc caaactnttc agttttcctc ctgttatatt t 401

<210> 31025  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 31025

ctcatcactt tcagcaatac attctccac tcaaatagtc tccgatgccca ttcattatta 60  
 tagccaccat tctgaccac ccgagaatca acttcactga caaggatatc tttatccatc 120  
 acaacgagaa caatggccag attttattct tcatggtaat ttcacccttc catatatcta 180  
 tccaaaatgc atatatgcac cattccccac ctttctaadc atattaactg aaaaccaatt 240  
 caccggacat aatgaattat gattttcccc catcatatcc ttccaccata taaaagtttg 300  
 actatgagtc aaactacctt ccacatccaa tcaatagtc tacctgaaat gtataaaatc 360  
 aaactatata gtgtgcttat ctatagagat tctcctcctc cacttagcta gaaggcttgc 420  
 att 423

<210> 31026  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 31026

agcttatcat atgtagctga gatgattgga gttccaacaa ctagattatg aagaagtgag 60  
gtctgcatgt ttgatgatta acaaaaaaga tttttgtttt atcaaaggga ctagaagcgg 120  
gtgaacagaa acaggtggag ctactagatt gctaggggaag ttatgctaac ttgggttgat 180  
gagttccttg tattccaaag aggtatttaa agggatggaa actaggaagt gaatctttga 240  
cactttcttt agtggggcaa ctcaaccttg gatcatcaac cttgattgat aaaaatgtac 300  
tgatatgaca accgtgacaa ttattcaaga taatatatttc acatcatgga ctgttttgct 360  
tgctttaaga aatatgggttc ggtaagggtt agctttttga g 401

<210> 31027  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 31027  
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tctgtgaaat tacagaaaaa taaaaggata tgtaagtttt caaaagaaaa aaaagaaaag 120  
caccactgca aatgggtgta aactttccaa agtcaaatat gctagcaatg aaagactggt 180  
tggaagtatc ataagcattt attgtaagat tgttgacttt tataatactt acttttaag 240  
ttatatcaag cacaatttct aatgggctga cagtgtaaaa atcttcacac tgaccgttta 300  
gcaaacttat acactttgat accatgggat acaaaccaaa ttaatcttaa aactcttctt 360  
acatgcctcc aaagctagga caaatttcaa gtgataatct tattaacaat acatgtaaag 420  
ccaacaagtc 430

<210> 31028  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 31028  
aaatcagcca ttattgaacc attatgaact ctccaaccac cgggaccatc tccggtggaa 60  
gaatcattcc aaacaacagc aacaacaatc ttattttcaa aatgctattg gccaagcag 120  
aacatacatt tcttcaccaa tccagcaaca acaacagcaa ccgccccaga aacagcaaac 180  
aggtgaagct ccttcgcaac cttcccttga agaacttgtg aggcaaatga ctatgccaaa 240

catgcagttt caacaagaga ccagagcctt cattcaaagc ttaactaatc agatggggaca 300  
catggctaca cagttaaatc aacaacagt 329

<210> 31029  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31029

ccttgtcoga aaagtcactt anaaccattt taagggtccaa cgccttanaa cggtcctctt 60  
tgctttttatc gattaacatg gaccgttcaa aagcataaga tcaacacata actttaccgc 120  
ttttgcaaga actatgtagg tctgagttcc tcatcacana tcgaggatac gtangagcaa 180  
aagccccgct tttgtcgacc accccaagag atcggttaatg gtccaacgcc ttaacgtttc 240  
tctcctttca aaaaccaaga gatcgттаат ggtccaacgc cttaacgttt ctcttctttc 300  
aaaatcaaaa gatca 315

<210> 31030  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 31030

tagcttgtga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60  
gcacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg ttcacaaga 120  
ctctcattca tcaaagttac cacaagtgtt acacatgctt ctatttatag actaggtagc 180  
ttccttgaga agctttcttg agaaaccttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttatcta cacacacccc tctcataact aagctcacct ccttgagaag 300  
cttctttaag aagattccta aagaagctag agcttagcta cacatacctc tcttatagct 360  
aagctcacct ccttgagatg agaagctaga gc 392

<210> 31031  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31031

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 gtttaagaag tgaaaatgag aatggggtaa atttgagca aactctcacc tcacacaagt 120  
 ctataacatt aatctaaact tgctcaaact ggttctacac ctaaaattcc accgaatcaa 180  
 aatttgactc ctcaacaccc aattttaccc tagaaatgac ccttggtttc actttggtca 240  
 ctcatactcc tcatttgcac agtctaagct ttctcttaag tcctaaatga catttcaaac 300  
 taagattaac tcactttaac cccaattac cactgaatcc agatttagcc ttccaactct 360  
 caaagcctca ctctttttcc actcataaca ccacattctc actttctaac cct 413

<210> 31032  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 31032

cacttcttat gctcaaagaa gaatcacctc gatcagaaag aactacgcag gtctgatttt 60  
 ctcaccccaa ttgaggaata cgtatgagca tagggaaaca cccttgtcga cctcgctaag 120  
 agaaactata tacaacgggt ataaaggata taaatacata caacgggaac ataaaaaatc 180  
 aaagtcacgt ttgcacattc gattaaaggt tgccgtccct tgcgacggac gtgtgggggtg 240  
 ctaatacctt ctccgtgcgt aaatacaact cccgaacctt tcaact 285

<210> 31033  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31033

cggcgccatg accccnattg agtccctgca ttacgtgaca cttaaatact aagcttgggg 60  
 agtctcgcgc cccaccacat gatggtggtt ggtgtctgtc ggagcatcgg gctcatggag 120  
 gaatcctcct gacgggcaca gcgcggactg gctgctatct gcagccgcct atctactaat 180  
 gagcccaccc tgcctttact tggcgattct tttttggtct atgaacacgc aactcaccaa 240  
 tttcctacca gacttgcgaa ctttcataa tgtcaccgta ccttgcggaac taactaatc 300

atcccatatt gacttacaga gggttacgaa accgtcctaa ctgcgaccg aagcacacat 360  
 ttgattaccc gtggaccca gtaccatacc gattgtgcag caagataacc gtttgatcta 420  
 ctgcacgtac cggaagctca catatagtct tatgaccggc ggcaagaacc tcgcan 476

<210> 31034  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 31034

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 ttgccctctg atgcattacc ctagtcgagg ggaatttggc gagcgaagac aaatactcag 120  
 aagctttgca atgcatgcta cacaagagac gatggaaccc tgggtcatct aggattgtct 180  
 gagagcattc aaaggatctt attcgagact acccgatcaa gtactgtgag agggggaaat 240  
 gaatagagga gacaatttcc attaccctag tgtagttgta tacaggcaga cgacgaatga 300  
 cctacagctc ctgatcacga t 321

<210> 31035  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 31035

gtgagaatgt gtctgaagaa gcacacgatg ttagacgacc ttacatctc tggaatccca 60  
 atgcggactc tttcagccac tttccactat tgcatagttc ctacctcaa tatcaacatc 120  
 atgactgctt tatcttatgc ttacagcaaa ttgcatctca ccgagaccat tctccaaccg 180  
 agaataccca tgtgtatgag attcctccag ccacaatcca tccagagatc tggccctcca 240  
 cactgtgcat taagagtgc attatgaact gattgccgac ttccaacggg atgtgtccaa 300  
 cgagcctacc tgatgggtga ttacataacc tatgaattaa atatgtctag gctgactacc 360  
 tatttggtc cctgtatgac attgtgatgg tgtagttgct aacaaat 407

<210> 31036  
 <211> 269  
 <212> DNA  
 <213> Glycine max



<400> 31036

gcgctctgga caacaccgaa aacacccgga tatgcagtgg tcaaacgaaa aacaagaaaa 60  
gcaccactgc agacgggtgc aaactttaca cattcaaagtg tgctaccaat gcaagaccga 120  
ttggacgaat cataaacatt tattgaccga tggccgactc ttataacaca cactttttaa 180  
gtcatcataa gcgccatccc gaacggggcg acacagtaaa aggctccaca ctgaccgact 240  
agcagactaa tacgctacga taccatggg 269

<210> 31037

<211> 377

<212> DNA

<213> Glycine max

<400> 31037

agctttttga actaggatgt gttagatcac ccaataacgc ggccacatac acagcttcta 60  
gctattcgta ggacatttca aggcccgat ccacatgtca atgttacacg gtgatgtttt 120  
taccataaaa tcaaactca ttgctaacta ttataaatat ggcgagagta acttaaaaca 180  
tttattgttg cctcatotta ataccaatct actctcgatt ttgctatata cgtttggatg 240  
atgattgttt cctagagatt ttgatgtcta ttcttataga ttttaaattc ctcatatcat 300  
attgagaatt ggccttggca tcgtgtgatg tgcccatgc agcagcaact tctgttttac 360  
tcatacttct tactata 377

<210> 31038

<211> 601

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31038

cctcccgcat ctccgntcgc ctcccnct aannntccc tctctcntct atactctcgc 60  
tccttctctcc gcanncntna nntaaannnn nntanannca gcnaccnacg ggacantttg 120  
gaaacccttg gtagatttgc agtacgacta gccanancng ngacactata nnaaactcaa 180  
gcttggccac tttcatccag aactggtagg ctcanatctt cttctgtcta cctcgacgac 240  
gagaaccaga tcctcctcgt catcggagac cacacaagca tgcaagtaaa aggagaatat 300  
attetaacaa tagagcacgt acatcgatgc acaactctac actatcacan attatgatag 360

gacgataatg ccggaagagt ctctgcaatg agttatcctt gcaaacgcat acgtacacaa 420  
gaattccaca aagttgacac cttaggtgta taacactcaa cactgagtac aagaggacct 480  
actcgttacc atgtggggcc tcctatgtta tggaaactcg gtgagcacca cccagagggc 540  
gtgccataca cttacaggta accttaccga gcttgcccgg aatgtctgtc ctaggaacgc 600  
n 601

<210> 31039  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31039

agcttgtcca caaaaatagg ttnttgaagt ttgtcatttc aatttctcac taagtaaaat 60  
ggatcatttt caaggtccaa cgccttaaaa tgatcacttc ttaagtaaaa agaatacact 120  
tgataagaaa gaactacgta ggtctgattt tctcatccca attgaggaat acgtaggagc 180  
aaagggaaac acccttgtcg accacaaaaa gagaaaaaat ataaaaaggg tataaaggat 240  
ataaagacat aaaaagggaa cataaaaaat caaagtcacg tttgcacatt cgattaaagg 300  
ttgccgtccc ttgggaacgga cgtgtggagt gctaatacct tccccgtgcg taaatacaac 360  
tcccgaacct ttcacttaaa agtt 384

<210> 31040  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 31040

tgccaccag ctcgcccagg cgagcagggg tgcttctctc agaagcaaca gccttctgga 60  
ggaatcttcc ggagggccca agtgggcctg gttgctattt gcaccccat ttttactaag 120  
tacacccct gccttttttt ggtgattctt ttttggtaaa gttacggaaa cttacgaatt 180  
tcgtaacgat acttgttttt tttccataat gttacggaac cttgcggatt acataatcat 240  
cccccttttg acttacggaa tgttacgaaa cctcactaat tgtgcaacga tgcttccatt 300  
tgatttcggg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360

ggcatg

366

<210> 31041  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 31041

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gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120  
aaataaaagg gttttctctt tttctattat tttatttaag caatgccaca tgtctccatt 180  
tgagtggagc aagaagggcc cactttctct ttttgactgt gacccatatt cagtcacaaa 240  
agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300  
ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360  
tatatatatc aaaacgctca g 381

<210> 31042  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 31042

tataaaactc agctttacat ggatgtccga ttcggtgaca taatatatcg agacgctcga 60  
aatcgaacaa cggaagctct cgataaattc gaatggatcat aacatttcac tcggatgtcc 120  
gattcgggga cataatatat cgagacactc gaaattgaac aacggaagct ctcatgatat 180  
tcgaatgctc ataacatttc acacggatgt ccgattcggg gacataactt atctagacgc 240  
tcgaaattga acaacggaag ctctcgagaa attcgaatgg tcataagatt tcacacgaat 300  
gttcgattcg gggacataat atatcgatac gctcgaaatt gaacaaccga agctctctag 360  
aaattcgaat ggtcataaca tttcactcgg atgttcgaat cggggacata atatatcgag 420  
acgctcgaaa ttgaacaac 439

<210> 31043  
<211> 159  
<212> DNA  
<213> Glycine max

<400> 31043

ataaacatat atagctcata tatatatctt tctcgcatga ggaacactgg ctctaatacct 60  
cacttggcta tcttgaagat cggccccctt tgccatgtct gattgctcta tcaccataac 120  
tgccctgctat gaagcccata gtcttcaa at ggactcgaa 159

<210> 31044

<211> 325

<212> DNA

<213> Glycine max

<400> 31044

gatgatactg ctaactctat aattataaat catgcttttg tattctaata tatttcactt 60  
cctgtatgct ggcgaaaatc tcattcttac tgggtgcaag tttcagacct tgcattgatga 120  
tgggactgtg gaactatggg atatatccgg tagctttgtg ttttcagaaa atgatgttgg 180  
gaaaatcatg gcagcaactt ctgttagtaa ctgcaagagc tcacaatgca gtgggtgtac 240  
aaagcttgac tactcagctg actaatgagc acctttcaa ttttcaagta cctacttctt 300  
ctgtctaata tcccccttct tttaa 325

<210> 31045

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31045

agctcacatt ttncctttatt ctgnnncttt nggagctgnc aaatgattgg ttgtaatacct 60  
tttatgtagt tatgtactat gcataatgcc aaaggacaag tcatactatt cagttttcaa 120  
aaggaataac cttaaactgt catcctatat tgcattgngg tggggtggtt aagtaggaaa 180  
gagaaacata ataaatacaa aaatatgata aaggatata atgaaataaa aaatgttaat 240  
acacattntt atgtattttt attattgatt aaaatttatt anaacgttag agattctatn 300  
tattgttaaa tgtatntaac tcataattct attattntta anaagtttta attaacaata 360  
aagaatattt taaaataata tatggatctt tnttcacaat aacaacaatg aaattcanac 420  
ttaanatttc atgct 435

<210> 31046  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31046

ttgaaaatat aatatcttga tttctaaaat acccattgtc tctccctctt tgtaaaccatc 60  
 aaaaaggcca aagtgcgcaa aacatgaata atttaatcat acacaaagca taatttgtaa 120  
 aacaaacata taagattctg atacatacat aaagaaaaac atgaataaaa ccaaattgaa 180  
 atgcaaacca cttagtcata taacacacac cataaatatc atgttcagtc atactaagca 240  
 aatattaaaa gaaatactaa gttttcaaat gtcataataa tatagccaaa tacacggcta 300  
 gaaaacaaaa tactaataat aatagtaatg tctaaactga tagtggtggt ggagggaat 360  
 taatgtagtc acgaatgatg gtgaaatctt cttcaacctt tgtgacctt gagt 414

<210> 31047  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31047

ttacagcaga tactagtagt gaccactaa cctacaatta acatttctga atgtccttaa 60  
 cctangggat tagaactaac ttaatggctg aatgatactg aaattgctgg cgaccaaatg 120  
 tcacccctt cagcaacctg taggcaccat ttggtctccc taaatgctga tgcctacgtt 180  
 gccaatgag cccttaatac aacttgaact aatgcccttg tagttgatta acccataaca 240  
 tacttttggc cagccaactt ta 262

<210> 31048  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31048

ctgcaagctg atctgcctct tgtaaaagta tgaccttga attctcggag cttcgttgct 60  
 aatttcagcg tctgatatgt gaacnctga atcaacatcc gtgtgaaagt atgaccattg 120

aattctcaaa gcttcttggg caattccaca tctcacata

159

<210> 31049

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31049

tcctcgggtgc catttctctac gaaggcaaac attggaaagt agttttacca agaaatgcta 60  
ctcttaaaac aaaaatggca tacaacctnc tncaataaac acaaacatcg atgtaaattt 120  
aaaagcaact tatgcacata cttttttacc aacgggtcact tgcaccagac atcttataac 180  
taaaaaaaaaat gcacccatgt acaatcaagg cacctttcgt acctagatta ttcatatgta 240  
cttgccaagt gtatntgcta cctacatcac atgcactttc tttgctaaaa tacatacatg 300  
catactcaaa gcatttgggg taccaaaaat gcacatgtgc acattccgta tttctaatac 360  
ttatgcatat acaaact 377

<210> 31050

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31050

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tagaagggta atctaatttc agatcatgtg gtaaaatctg ccataacaac tntggggaca 120  
ggagtcaatc ccttttcgaa tactatatca caaatataag ttgctcaagt aaaaaatgat 180  
acataacca agccagtagt tagctctttg agaaaaccat ccatttctac caatttacct 240  
tctgacccaa aggttcattc ttatattcct tatgtatcta ccatagttag ttggaactag 300  
anaaagagca aattgtcacc agcaatgact actattgatc atgatctaac ataatatata 360  
gtagcacagt gtanaacacc aaagaggata tcatgcttgc caccgaggac tacatacatg 420  
actcacnaac atttannaat tcagaaacat tgacaataat 460

<210> 31051

<211> 418

<212> DNA

<213> Glycine max

<400> 31051

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agtgactacg atgatagtga caatggtggg gatagttaca ctgacaataa tggatgatgac 120  
actagtagcg atagttacag taacaataat ggtgggtgaca ttagtagtga tgatggctgc 180  
gacaacgaca atggtaatga gtgatagcag cgataatggg ggtgtttctt atggcgacaa 240  
tgggtgggtgat gatgatggg gtaatgatgg tggtgacaat agtagtaatg gtgatgggta 300  
ggatgggtgac aatgatgacg acaatgatag tgatgagtgg tgagacactg gtgggtgacta 360  
tgatggatat gatgggtggg acaattgacg agtgacaatg atgtgatggg gttattat 418

<210> 31052

<211> 344

<212> DNA

<213> Glycine max

<400> 31052

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cgaaagtggg ttggagggtc ataagacaga tgtgcacgat ctgaccattg cgatttgcca 120  
tatgacttgc ggtgtgtgag acacacttga gtgtttcaag tcttattttc atgtagcctt 180  
gaaaaacagc cattcctttc tacttctttc ttgccaaacc cttccccaac atcccaagct 240  
tcttctttac caccacaac caccagtagc caccacaaac tgccatagtt ctccattgaa 300  
acctcacacc gagaggaacc cttcaatcgg agtggatctt ctaa 344

<210> 31053

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31053

tgccctaagc acaagaaata aaaacatggt acgagactgg ccctgacttt ctcgtgctac 60  
tagagtactc atgctgagac agcgcttttt aagccaatga ttgaattacg atggtcacaa 120  
tcaattatgc tcacactgtc acacatatgc gattatatgt tgacacaaaa aaatagcatc 180  
aattctgcac agcttgcttc ctgaattatg gcaagccata ngagtggcaa cgggcagata 240

aataatagc

249

<210> 31054  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31054

tggaacanat atattgagct cttgggtcccc ttagagattg tgtaaatatg tctcctactt 60  
tatcattaga actaacgaat tcagtaataa cttccttaga aagaactttc tcttggacaa 120  
aatgacaatc aatctcaata tgtttaattc tctcatggaa tactggatta aaagctatat 180  
gtacggctgc ctgattatca cagcatagct tcatttggtg agtatctcca aacttcaatt 240  
cttcgaagaa gttgtttaat ccanatgagc tcacaagtgg ctacagccat agctctatat 300  
tcagcctctg cactagacct ttgcacaaca ttgtcttctt actctttcat gagacaagaa 360  
tttctccaac agacacacaa tatgttgaag tggacgccta tcnatgggtga tcttgccatc 420  
tgcttgcaaa tccactatt 439

<210> 31055  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31055

tccgtgcgag atacatttct ttatgaatac attatttcta aaatcccaac agtgagaatg 60  
tgcaaaaatg acttccacag gtggtgcccc aatttcatga gaatccaacg gttaacgagt 120  
ctacgatcgt aattctacta agacaagttt gggatatatgc ggaaaagaga gaggttttgg 180  
gagaagaaga agaaagaatg aacttgcgag gagcananag catagagacg tctcctaaat 240  
gtaaaactga cctagtatgt ctctatztat agttagggtg ctcttagcct attatttact 300  
ttattatattt ttacaaaaca tacttctatc ttactttttc at 342

<210> 31056  
<211> 338  
<212> DNA  
<213> Glycine max



<400> 31056

taacaagatg agttgccaac agagagagtc aatgaataat tacctatcga aataaatttc 60  
cttcttttct ttaaagacga tgatttgtct tcgcacacca caagatgctt ttgctttcaa 120  
agagaatctc cataagcctt aatagtcact ctcaaggggc cgctgaaaat tgctaattag 180  
atagcattat ttatcaaaat acatgtaatt aactatgagt tacataaatt tctagtcatt 240  
taattttttt caacattaat ttctctttct ttatgatccc ttggccatcc caatttttta 300  
agggaggatt gctttccaca cctggggaaa aaaaaagg 338

<210> 31057

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31057

agctttaaga taagtgtaag aganaagata gcagcctcaa tgtnggtgaa actggagtcc 60  
ttgcatatga cagagtcctt tgcaaactcg ctatgcttaa agcaacaact gtacaccttc 120  
aagatgacag aatcaagaat agtcactgag caatcgggcg atttcaatta gatccttgat 180  
gatttggaat atatggaagt aaagctggaa gatgaggata aagctctttt gcttttgaat 240  
tccttaccac aatcctttga acatttcaag gattcaatta tctatggcaa agatcaagac 300  
attaccctan aagaagtcca tgcttcaata aggaccaagg agatgcaaaa acagcaagac 360  
tcccaatct 369

<210> 31058

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31058

tgcaacaaca gtaaactctat tnttgtaaca aatgaagtaa ctaactgtca caacctaccc 60  
ttcggcgagg gggagacgca tgactcgagg gtgcgtgttc caagaaagat atacgcgcgg 120  
agtcgccacc aacgttcatt taaggaaaat gtcggaaaaa ccgaaaaaga cgtgatctac 180  
aaactctaag tgaaagggtc gggagttgta ttacgcacg gtgaaggat tagcacccca 240

cgcatccgtc acaagagacg gtaacctcta atcaaattgtg caaatatgac ttcaattata 300  
 tttatttccc tttctacgtt cttatgtctg tttattcctt ttatgtatta tc 352

<210> 31059  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31059

gacgagatga acattgtgga ccctttgatc acgcgacaca tanataactca gccttgacta 60  
 acagagtcgn cncntccttg ttttctntga acttgttcta tatctcacct gtactccctc 120  
 tattgccacc gtacttgga caoggtatg ttgcttacta cgatgtggag cttgatcctc 180  
 aatatcttcc aatctatccc caggatcggg tgttaacact actcataccc attccaaatc 240  
 cctgaaatgt cctgaacctg atgcaacaaa aacacactcc ccatgaatcg aaacccaacg 300  
 atcactgcc a cgtgtacat ccgccaat aatgttcttc gtgctgacct ttaactgcaa 360  
 tcccacatca caatgtcaac ctgacaattg tgatcttggc tacaaatcat gagccgtcgc 420  
 ctgttcaata gaacgacctt cgaacctgac atctatcgag cctatctgaa aactctgcgc 480  
 tgcact 486

<210> 31060  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 31060

cttcatcaat ggagtccttt gcttcttgaa gatcaatgac agtggaatgc aaaaggagga 60  
 aagtgattg gagatgccac ttcaaggaga agagagtcaa gaacaagttc accaccatat 120  
 gaagccatgg ataagagctt gaaagttgga gaaaatgagt ggaggagag ggagagaatg 180  
 ggcacgaaat ttatgcctcg aatgaagtct aaaatttgaa gtgtaatttc tcaaatgatc 240  
 aaagtagaaa taatgcacac aaaaagcctc tatttatagc ctaagtgtca catg 294

<210> 31061  
 <211> 490  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31061

tatgaaccct gttganaccc ttgttgaaac cattggatan cctctcnana tnggcaccnt 60  
tggtggggat cttggtgccg attattgtag aggctttatg acctatctta agatttgaca 120  
ctgacgattt cgaattttac tttcctgaac atagcgttgt acatgctgtt tcggcaccaa 180  
gacccactgg gataagtcgc tcatgggaca cgggatctaa gtccttttgt taggtctgcc 240  
tgagttttac tgectgactc ttttctttca agatattctc ggtcttaatc tagtcaaagt 300  
gcctgttacc acatgaactg acccttgagt acaccattg ttatgatatc ccacttgag 360  
ctatatacct ggcacacaca cctatatttc ttcattctca tggagaacga gccactgcta 420  
cgacatcata atggttagat agactcccat atcggttcaa ctggcatatg cattttctag 480  
ccactcttcg 490

<210> 31062

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31062

tgctatttgc accccattt ttactaagta cccccctc tgcttgttt tggtgattct 60  
tttttcgtaa agttacggaa acttacgaat ttcgtaacga tacttgttt ctttcgtaa 120  
tgttacggaa ccttgcgat tacataatca tcccctttt gacttacgga atgttacgga 180  
acctcactta attatgcaac gaatgcttca ttngatttcc ggtgtgtcac ggaaact 237

<210> 31063

<211> 128

<212> DNA

<213> Glycine max

<400> 31063

tgagcttacc tacacacact cttcatataa ctaagctcac ctcttgaga agcgtgcttg 60  
agaagaatcc tgaagaagct tgagcttacc tacacacact ccctatctta gctaagctca 120  
cccatgc 128

<210> 31064  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31064

agcnnagant ttcaanttta tntacngaan cagnngagga ancttgggca ttatctttcc 60  
 aagtgatata ttctttcttt cctttcttat ctttgaaagg tttcttgtca gaattttcca 120  
 tttttcttct aaagatagga caatcaactc tcaggtgcct aggttgatcg cattcatagc 180  
 attntggaac tgaggaggaa tcttctccct tcttctttgg attgaggttc aatctcatc 240  
 gatttccttt gttcctcaga annatattta atccttttac aaagagactg anatcatcat 300  
 cttcttctaa attatttttt tcattcaagt cttctttgcc actttcttca tgaatagaag 360  
 atgaggttnt gaatganatt cctttcttct ttcnttcatt ctcttcatgt tgggtgagtt 420  
 cataag 426

<210> 31065  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31065

tgcatgattt acatctccct ctntctcaag caaattcttc ttgatatcat caaaatcttc 60  
 atgatttatt aaagaatttg aaaataaaga ttttgaatta ttttgtgatg aacatggtat 120  
 tgaacataat ttttctgcac caagaactcc tcaacaaaat ggagttgttg agaggaaaaa 180  
 taggtcattg gaagaaattg caagaacttt attaaatgat acttctcttn caagtatttt 240  
 tgggctgaag ctgtcaatac tgcatgttac atcatgaata gagccttgat aagacctatt 300  
 ntaaagaana ccccatatga gttatttaac ggtagaaaac ctaatatttc tcatctacat 360  
 gtttttgggt gcaaagtgc tgtacttaat aatggtaaag ataacttang aaaattcgat 420  
 gcanaatctg at 432

<210> 31066  
 <211> 418  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31066

agccttnctg ataccagtta ccacttcacg canagaanac gaaaggaaga agaacgcgac 60  
ttangtgagg tcaggggtga ggaaggagac cgaaaccact tcacgcaagc aaaaagaaaa 120  
aaaatggtga gggatcacga ggaagaagaa ggccaacgag ggagggaggg aaggagagag 180  
atgaaccatt tattttttaa ataaaaaaaa ttaagccagg tgtacaaagg tatttttgcg 240  
tcaactgttg agtgcaccaa caaaaatggt ggggtgcact agcagcactc gccagtgtac 300  
aaacatgaga ccaacatana ggatatccag ttcacgagtn caacatccaa gttctctttg 360  
ttggttccga gtgttatgcc ctagtgccca aaaaactntc caatatctca tatactcc 418

<210> 31067

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31067

catttatctc atcccattca acctaaacat ttcataaaag tgaacatcat aatcaaagct 60  
tanatattca aactaggaag aaaaattatt caattcaaga ttaagaaaat tctctaggat 120  
aaaaatcatt ntatgaaggg acatatcana gcaaacatg agtgcattga ccacaaagtt 180  
gaaagaattg acaccataga tttagttatc catattccac aataagttgc ctggttcana 240  
aagcacttca agacacaatt agccaaagaa atttaatat ntgttgcaag aataattttt 300  
taaataaaag tagctacagt acaagtttat gaacatctat cacaacttat accaagaaat 360  
tcttgataat g 371

<210> 31068

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31068

agcttaaggt ttgngattct attatananc acttcatcac ttgcttggtg aagatcatca 60  
agccggtgcc atgcaatttc ctgcagggtta cacaatttct cagtattttg ataacctggc 120

agtggcaatc acatatagag taatttacca tgatctttta cataagaaca aagaaaagca 180  
 atcatgttga aagttctcag ccacaacaca ctcaactgga ggtgcaagga aaaaacagta 240  
 aagaccanac atagatccaa aattcagagt aaaaaagatt caaattagtg gaaactctgg 300  
 ttttccttta gtttctctgt nttttgaaat tgacttatca tcccaggatt gtacttttac 360  
 attctactct aaagaagata tcttagacta aactactata tangagataa ttaaagataa 420  
 ctcttagta 429

<210> 31069  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31069

tgtcaaagaa tccaacctct catggtagaa gcaaacacat agaaacaaga tttcactatc 60  
 ttagggatca agtgaacaaa gagaaactga aagtggagta ctgctacaca tttgatcaac 120  
 ttgctgatat ttttaacaaa cccctcaaag gggagagggt taaaaatgta aggggcataa 180  
 ttggcttgat gaacttanga gatcagaata agggagggtg tgagagttaa attnttgttt 240  
 gtgtggggta gaattgtttg tgctttgaat ataagagaga gtaacagaat ttttaaattc 300  
 ttgtataagt actagcctaa gtgtgagngg ttatttactc tgttttgctt gtataaangg 360  
 catacatata tottaataaa gaggatttat tcattctatc attttcagtc tct 413

<210> 31070  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31070

agctntgagt tanaatttga ctcaccatan accttgaccc agcgtgagaa tgccaatcct 60  
 taccctcgga agcaaaaaaa gaatagaggg gaaatttcca atcacagaan aagagaagga 120  
 aaatttccaa tgaaagcaaa aaagacatga aggaaaattc cccaatcata gagtgnagga 180  
 aagcaaanaa aggataagaa ggaaaattcc ccaatcaaag agtgggagaa agcaaataga 240  
 tgagaaagga anattcccaa tcanagaatg ggagaaagta aaaaaggaag aagaagaatg 300

acagaaagct cctgatcaag gatcgaaaga aaccagaaga aatgtgcaga gaggtctttg 360  
gaccagacaa tatctgaaca gtacagaatt gtcaccaaat ga 402

<210> 31071  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31071

tgtaaataatt tattggtata atttgcctgt tccattaggc tcttaatgtc tttagagggt 60  
acttcctcgt taacatcttt tgtcttgaat ggaattgccca tgacagggttt attggtactg 120  
tctttgatat ttggtagtgt atatttgtgt gcgggaagta attccgattg gattaactca 180  
ccatccttca cttgcccaatt tgctatgaca ttttgtgttg aatcacctat gatgtcttgt 240  
ttccaaggggt aatctatata ctttctgatg gcataagcat gaaaccaatc aaagaanaag 300  
acattaattht tgactctttt cgacaaatcg tagaacttgt cttggatttg ttctctg 357

<210> 31072  
<211> 444  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31072

cctacttgac taggcgacaa tgggtgaaaca gttctcacag actcagactc gacagggaaat 60  
gtgaaagaca atgtggcatt ccagagcagt ccattattac tgtatgatca tgacttcagc 120  
ccttacataa tctgagctca tggtttgctc ttgtcactga tgacggagaa gtcaccggac 180  
cctaccctta ctgtgtcatg cctttgatta taggattgat gagatacagc agggcctggg 240  
taatcacgtc cgattcatgt gctcgagctg gcacagaatc aagatatcag aggtaggctg 300  
ccaccgccat tgctgcattg taacctttat tcagttgggc tactgccaag acatgtgccc 360  
ttatcaacat tagaacgctg catattcgag attgttctct ctgcaccogt cgaatctgtt 420  
gacactgaga agactgtgga taan 444

<210> 31073  
<211> 444





gcaagcttan ctttttagttc tctgcanagg nanccaagcc gnagagaaaa agaagagaga 120  
atggaggcac aacnnnactg gcgacgagcg agatacagca gcngacgaac acagnactnc 180  
taaaatcccg acagggagaa tgtgcgataa tgactttcaa aggaggtgcc caagtttcac 240  
gaaaatccaa cgggtcacga gtctacgagc gtaattctac taagacaagt gagcgtatat 300  
gcggaacaga gagaggctct gtgagaagat gaacagagat tgaactggga ggagcaaaga 360  
gcatacagac gtatcctaaa gggaaaactg agctagtatg tctctatcta gtaggaggag 420  
actctgagcc tattatngat gatactatta ctctcacaga atactcctat tatactctgt 480  
cgtcaatgna gaacacagta gaacattcat gtatttg 517

<210> 31076  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31076

tatgcatcca atacctgat gaggatgtcc catatgttct taaaactgga ctgattcatt 60  
tgcttccaaa gtttcatggc cttgcaagtg aagacccgca caaacatttg aaagaatttc 120  
acattgtctg ctcaaccatg aaacccccag atgtccaaga ggatcacata tttctgaagg 180  
cttttctca ttcattagag ggagtggcaa aagactggct gtattacctt gctccaaggt 240  
ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattnnt cctgcttcca 300  
ggaccacagc catcangaag gatattctcag gtattagaca actcagtgga gagagcctgt 360  
atgagtactg ggagagatta agaaactatg t 391

<210> 31077  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31077

aaataagccc tccatcagtg ggaccttaag cttcattgga taatttcttc atttggttat 60  
gatgaaaacc ccatggatca atgcatatac cacaaggcca atgagagtaa aatatgtttt 120  
cttgtttcat atgtagatga tattntactt gcagtcaata atcagggttt gctaaatgag 180

gtgaaacaat ttctctctaa gaattttgac atgaaggata tgggtgatgt atcttatgtc 240  
attgacatta atattcatag agataaacct cgaggatttg taggtctatc acatgaaatc 300  
tatattaaca acaattttaga gagatttang atganagaat gctcaccaag tgcgctccc 360  
att 363

<210> 31078  
<211> 400  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31078

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caaaaggtga taattgncca tgtattgcat tgctcttagc tcaacattca tccaatgagg 120  
ggtattgtga gaagagtga aaaacgcggt tttgtagatt aaaacaaatg ccattggagc 180  
taacgtggaa agacanagaa attaacaatt gcatataaaa aggggggtttc tgggtggtaga 240  
caatattgta agagaatagt gttggaggaa aataccttaa tttgaagtaa acatgggtatc 300  
caacctgtgg ccaactcgat gcttttttga ggaatgtgct ctgctgctc agctgcaact 360  
gtgccttact attactaaca ggtcaatttg atgatggaca 400

<210> 31079  
<211> 380  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31079

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cacagtggcc anagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
gaagatttcc agattgcaac tcttggctac aaaattcgaa catctgaaga tgaaggagga 180  
agagtgtatt catgacttcc acatgaacat tcttgacatt gccaatgctt gcaactgcctt 240  
gngagagagg ataacagatg aaaagctggt gagaaagatc ctgagatcct tgccctaagag 300  
at ttgacatg anagtcactg caatagagga ggcccaagac attngcaaca tgagagtaga 360  
tgaactcatt ggttctcttc 380

<210> 31080  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31080

agcttatgag ttatctaatac aagattcttg attgctctta aagttgtaac atgtggtctg 60  
 actagtctcc actttctagg taaacttcgt aagattttat caacatgatac ataattatca 120  
 taatgtatac ctagagagcg gagctcgttc agaatgattt ggaagtttcc aaacatgggt 180  
 tgaatatctt ctccctcttc catattaaag agttcatact tatgtgtcag aaggctcaac 240  
 ttgttacgtt ntacgttaga ggacccttcg taggtaatgg ataaggtatc ccacatttgt 300  
 ttggcgcttt tgaagttgtg aactttggaa tattcttgcg cgttagttga taagaaatat 360  
 agacttatga tcatccatcc atttgtcctt ggggatcttg ttcttctga 409

<210> 31081  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31081

tccttgagag gcttctttga gaagctagag tcttaactat ccacaccct ctaataacta 60  
 aactaacctc cttgaaaata aaacatggat aaaataacac aacaaataaa atcaaatac 120  
 aattataatt gctaataata tttcaaggtg ttacagcttg tccaaagtag ccttgggcat 180  
 gatgttgagg gaagagccat tgtcgataag cactttggcc actatgtggt gatggaagct 240  
 tgcttgtgga gcttctatgg aggctggatc tttagacttc aatgaggtcc ttcaatgggt 300  
 attntacacc atggagatgc 320

<210> 31082  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31082

taagcttatt cttttgacag nntattatca tgcacaacct gcaagaagtg gctcataaca 60

ggccaatcat aactatggag cattttcttg agcaagtagc ctggcctgaa gctcaacttc 120  
cattggtgag acccaacgag gctactccgc ctgagccac ctgtgcaggt tgatccagag 180  
ccaactaacc cacaatctct agtggtaa at cactatctt ctcttgagcg tgaagtagtt 240  
ccccatctc cacctctgat tatcatctcc gatgcatcat ctgatgaagc agctgcccc 300  
tctgatcacc anaaggagaa aacagctgac cttctacttc ccctagtgga ggaanttctg 360  
antcgtcatc tgg 373

<210> 31083  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31083

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tttatagggt tctaatttct atcatacgtt gggtacatat atttatattn tattgatgtt 120  
gcagggtgcac atttgggact ttccaggaca gacaaccag ttcttcttga atgacaaatc 180  
tagattgcca aacgattctc ctgggtcaact tggaaaagag gtagttgggtg attgttaata 240  
gattggcacg tgtatcaatt ntatcacaag tagtaaagat taatatggaa gttcaagtat 300  
cgaatccacg aggacttttg ttgtacttta gtgattctaa cccaattatt aagcaatgag 360  
aagaagtaga agagaaaatg aattgtaagt gtg 393

<210> 31084  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31084

ttagcttatt actatntcat gnnactatct atgattttgt tacttttctt ttcatgatg 60  
aagttattat catgtaaact gaacaactct caacatatct ataatgcatt aagttatttt 120  
gtagcaagat tttaaccgtt ttgggtgtgt tagtgacaca ccagaacatg acattgctaa 180  
tcattaaagg aaatctcttc taaattgagt aactcactct agagggtaaa gtgagaaatc 240  
atagttgttg atgaanaaat caacaatcag ttaggtgcac atatatgaca aatcatggat 300

cttgtggaat attgaannat gaatttttagt anatggtcta atttatatattt ggttcttaat 360  
 agaaatttgg tntatgaaga atctttaata aaataataat ttttttttat tcttgacact 420  
 tatntctagt tcta 435

<210> 31085  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31085

ttcttccgtc ggtgctcttc tcatggggta ccctagttgt cttatagcga gcgcgggatt 60  
 gtagttaata caaccctcg ttctaccag cggaatgttt gggatctctc cacatgagaa 120  
 gaggaccctt tcttttctt ctttccatcg ggggaaccāa ctgatngttc taccttctat 180  
 cccggccaag agctggtecc aatctattct cctcttttca gtacacgagc gatggctcag 240  
 gagccgacat ggatgtcttg ggtcttggtg gaacaagtgc gaaaccaacc atacacagag 300  
 ggcgggtaag 310

<210> 31086  
 <211> 191  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31086

ggattcattg gcctcttacc tgttcatttt atgtgtggaa ggcctatncg ctatgatcaa 60  
 gaaggtggag agtaaaggac aggtgcctgg ttttgggttt gtaggaatgc ctttctatca 120  
 gtcattcttg gtttgccggg gatattctatt ctttgagcat ccaataagga gtgtatgagt 180  
 attcaacata t 191

<210> 31087  
 <211> 175  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31087

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 tttgagttag ttttaacaac tgagatctan gacattcaca cggatgatggg cccaattctg 120  
 tctctaggct tgcgtanaac aatccatggt gtgatgattt tcacgagtat tattt 175

<210> 31088  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31088

gcttgctgat tacattctcc cncctttctca agaaaattct taattcttct tgacatcatc 60  
 aaaatcttca tgattttacaa atacaaccca naaataaaaat aaaataaaaac tggacgacaa 120  
 ataaaattgt ttgctctttt caagtccaag ccggttcagc ccaattctgg atccaagccc 180  
 aattgcttat aattctcttg aaattaaatt aaaacacaaa attagtcaag taggtccaaa 240  
 tgataaaaact gcataattaa tttgacaatt aagggttaatc agtaattaa atggtgacag 300  
 aaaggggtaa gaaataggag aaaataatga cacatcaata ggcaacttcc ccccttatgg 360  
 tgattagctt gagtctcaag gaagtttcan accgagtggc atgcccccaa gtacaaatat 420  
 ttttctcat gaaaaactac ta 442

<210> 31089  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31089

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 tgatatccac tcgacaagggt ttgaagtgga ggagaccttc aatcctataa cgcaacgtgg 120  
 cggacaaaaa tgggcagtta actngaattgg ccattattgt caacgcggaa ggtatnttgc 180  
 gcttcactat ccatgttcac acattattgc agcttgtggt tacgtgagca tgaactacta 240  
 ccaatatata gatgttgttt acaccaatga gcacatctta naagcatact ccgcacagtg 300  
 gtggcctctt gggaatgaag cggcaattcc tccttctgat gaggcattgga cactaatccc 360  
 tgaccaact acaattc 377

<210> 31090  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31090

ttacgaagct ntctgggcct tgcgggcttt tataggagat ttatcaaggg gtatgcttcg 60  
 atagcttccc cattggtggc agcaaccacg gtggagcctt tccagtggac cgcggcggct 120  
 cagctcgcat ttgacctctt gaagaaagcc ttgttcgaaa ccccggtact tgccttgccg 180  
 aatttctagc taccatttac agtcgagacc aatgcttctg ggggtgggcat gggtgcaatc 240  
 ctctcttagc agggccacac aattgcatat tttagcaagc cattttttgcc taagcttcaa 300  
 cgatcgcca cttatgtccg agaattgttc gcagtgatgg cggcgggtcaa gaaatgggtg 360  
 caatacctcc tcggtaacg gttcatca 388

<210> 31091  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31091

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 taccaaaggt gaaggagctg aacattatgc ctaaagaatc agagagctct cggttaactct 180  
 tgtacatctt caagtccact ttgcgaaggt aagggtgctc atccatgcta actttgacaa 240  
 agcttgcatt agggctgctg ttcttctcgc tctcttctcc aacgctcttt tgcacagcca 300  
 acatgttctt ccggaaggac cgcacagggt gccaacccac cacctgcgtc ctacacattt 360  
 caactcatca atatcactct atatattatg atcaattaat acgcatcatg aacatatatg 420  
 gcaatcatat aacgaagtta aaata 445

<210> 31092  
 <211> 273  
 <212> DNA  
 <213> Glycine max





tcacacacac tgcgaggaat gaaatgaaag ctacagaata atatgtacta ctacacagac 420  
acaçcaaacc ggcgcgttttt tcgttgacga tgactacgct atgatctctg agctcgcgta 480  
atcanaacat agaaagacac tgtattctct tcgattaccg 520

<210> 31095  
<211> 347  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31095

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tgcacccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120  
tgtatttggt acttacatca cacacatctc cttggctaaa ttcacataca tgcatactca 180  
aagcattntg ggggacccaaa aattgcacat gtgcacatct tgggtattct aatacctata 240  
catacacaaa cctcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300  
tcttttcaag tttttgctac ctaaggccgc atgcaaattc aagtata 347

<210> 31096  
<211> 302  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31096

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gaaatgaata tagcaatgag aaaacctata gaatccaccc ctgtcctgtg tcctatgctg 120  
acttgctccc atatctactt gataattcaa tggtagccac aacctctacc aagggttcac 180  
aacctttatt tttccgaaaa tacgactcga acgcaacgtg tgcttgtcac ggagaagccc 240  
cggtgtgtac cattgagcat tgtanggctc tgaaatgtaa ggtgccaggc catattgatg 300  
ct 302

<210> 31097  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31097

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 cacatgacac ctacaccttt gcacacatgt tgagatatta agccctatac ccgggtctgt 120  
 gtgagacata nggagtggag gttgatctat ggtcatgttg ggtcttcgac ttgcttgata 180  
 acagtgatgc ctcatctaga gttttcttct ttttgctgat gcattgtcac tggtagatcc 240  
 taccgccaca atgttggttac ctaagaggat gatattctcta gaagccaatg agttacatga 300  
 taccaccttg ggagttgcac tagaaggagc tttggatcct ttcatangtc ctgaatatga 360  
 cacatacaac tcactt 376

<210> 31098  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31098

agtttataat tattaatttg acggttctcc acattntgtt tcttgaaatt ggtattcttt 60  
 ctatgggtga gaaacttgcc ccatttgtat ggcttatatt ttcaagggtt ttgctcattt 120  
 atcagcttct ccaaaggctt gacctcagtt tcatgcgaaa ggtagaagaa tggaatggag 180  
 aacctttctt tctcagagtt gaccaccact ctgtgttcca cactctcata tgcattcattg 240  
 ctccaaacct gcacaaacaa ctccaatcct canataaaaa ttctctccac taattacggg 300  
 aataaatagt tcataaaactc aaagattaga atatgttntt ttttaagggtca tcatgacatt 360  
 ggtgtgaagt atttatactt ttgttagtga ctaatctctc ctgngaagct gggcagacca 420  
 ctattagt 428

<210> 31099  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31099

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actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttggtttt 180  
 gcctaaaccc atccccgggtt cataaccggt ccccaacata actcggggcca tcattaccgc 240  
 tgcatcggac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300  
 anaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360  
 tgggcagctt accaagatat cttcctcgcc tgacacgatg act 403

<210> 31100  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31100

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 ccaaaaataa tgaaacctta atctaattt tacaaaagat agtgggctcg tacttagccc 120  
 atgggcccac aatctaccct aagggtcata aaaaccctag ggccttctct tgcatctctg 180  
 gcccaatcta cttggagttt ctatccaatg cccttgcggn gtaagattgc atcattccct 240  
 ccccctagaa gaggatttga cctcaaatcc cgaggctctt gaactttggg ctttttttct 300  
 cacactatan aagaacaaaa catatgtata gtg 333

<210> 31101  
 <211> 156  
 <212> DNA  
 <213> Glycine max

<400> 31101

gcagctctat ggtaaagtgt aatgtggtga agggaaattc cggcgtgtta aggtttcagc 60  
 attgacggcg acgcagagaa gccgtcaacg tcgtccgaga tcgtgttgga acccatcata 120  
 gacttctcgg gtaccatcac attgccaggg tacaag 156

<210> 31102  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31102

atatagggcc ctctgaataa acttttgcac aaacacttat atgagaagaa agaanaaaaa 60  
aagcttctca ttgttaaggt catttgaacc aaaattctca accaactctc ctatngaata 120  
aaatcaacgt atgcacttca aattttatac aagatattct tcatgtaact tctccaaatg 180  
tagattnnta attatgagaa aaacttaatt atttcatctt attttcttct ataagtactt 240  
attgaaaagt ttctccgaac atgacaatca ttaacattaa naactgcac ctacctaaat 300  
ccatntgcta gcaagatcat ta 322

<210> 31103

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31103

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caaagcatgg aaagagaaag actgagtaga aaagactggg aaagaggcag tagaccctc 120  
aaattgttct tccttttttg ccttctcagt attcctcttt aactctaggt gctacagatc 180  
tctatttatt gccatactaa accaacaata tggaattaat ctgttttatt tctagtatcc 240  
catcaagcac caagtgaaaa aataatacca tccaacata cagttgtact taccacctac 300  
accanagtaa tagaacctac acattaaaaa atattaatag tttaaaggat agtatttttt 360  
ttct 364

<210> 31104

<211> 316

<212> DNA

<213> Glycine max

<400> 31104

ttgagccaaa atcctaactc accataaacc ttgacccatg gtgatatatg tcaatcctta 60  
ccctcaggag caaaaaagaa gagaaggaaa atttccaatc aaagaaaaaa aaaagagaag 120  
gacaatttgc tatcaaagag aaagcaaata aaaaaaagag agaaggaaaa tttccaatca 180  
aaggataaaa gaaaggaaat gaaattccca atcaaagagt gggagatagc gaacagaaaa 240  
gaaagaaaac tccaaccaa agagtgggag aaagtaaaag gaaggaaaga aagctcctga 300

tcaaggatcg aaagaa

316

<210> 31105

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31105

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taccagttat gaaaacaatg cacgaattct aaaatgcaac acttagcaga aagggtcaat 120

tgtaaagttc atatagcaat tcaattctaa tccatatata acgtatttta tatatattca 180

tattcccaa gagtctactt ttcaaata attttatttt catcaaactg tatgtgaatc 240

aaacaaagta aaaaactatg tgaagtatgt caaagttgaa aattgaaaac agcatgtgtg 300

cacaaactnt caacaccaa taatttagaa atgactctaa gagcccatc tcatggagga 360

taacctcca naccanaatn gacattaaag aanatagaaa ctctcaatac cttg 414

<210> 31106

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31106

tggaaccaa catttaagat atgataagat tgtagttta aggtaatgat tgaaattaaa 60

tttaaaaata tattcgattt tatagttata aaaaatattg taacctacat ttaaatttag 120

actattatca gattgctagt gtaagataat gattgaaatc aaatttaaca atatattaca 180

tttggtagtt ataaaaaata ttgaaaccaa aatttaagat ttanaatata tctattaatt 240

catatgttct aattntttta cgagtatggt tttagagnaa aaaattcatt taatttattt 300

acaaaat 307

<210> 31107

<211> 167

<212> DNA

<213> Glycine max

<400> 31107

actgctccat attactgata atcatgggac ccatacccca ccaaggtatc aacctcattc 60  
 tccgaaatac actcaacgca cgtgtgcttg cttgacaacc ccgggcgttc attgacattg 120  
 aaggcctaag cgtaagtcag gtcaattgtg cggctgctga attcaga 167

<210> 31108  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31108

cttatccgga tgcagaatat attccgaaaa gactatctgg atgtaagaat tacctttaaa 60  
 agttttccaa tataatttac attcaaatat ggaagaagta atgggagttg aatttcccat 120  
 ttgaatgcga tggctggaag gcttccttta ctgggctgca agtttgcacc gaaggaacca 180  
 ttgcttactg cacctctaaa ttactaccta cacgccacat cattttaaaa caattaaaat 240  
 tttcnaaagt naccocgacg tgtccttcgc accccattcc ccgtcccatg gatgct 296

<210> 31109  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31109

agcccanncg ttaggcctta attttgggaa caatcncgng nattggcaaa gaagacatca 60  
 tatgccaaagg gaacaatttc ctctatcac tggaggtata tacctagggt aagagcgagg 120  
 ttgattcata tttctaaaaa tttgagacaa aagttgacct aatacgcttc tacaatcttg 180  
 tcaagataag ttgcatcgag gatgatgaag tcgtccctat atacttgtaa ggtctcaata 240  
 actatatata ccccgaaag aaaactactt ctttgacaaa gacgggtgttg cactattaga 300  
 aattacactt tcaacatcgg ttatttaggg cattctacat cggtctaan accgatgttg 360  
 aaagtgatga tgttgaatgt atcatcgta acatcggttt ttaaaaaccg atgttaacat 420  
 anatatgata acatcggttt tctaaataat cgatgtaaac ac 462

<210> 31110  
 <211> 384

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31110  
  
 ctaagcttaa gctgctcaat tgctccaggt tgctgcatgg aagggcaaag gtctgtatgg 60  
 tggtcagcag aagagtacaa accacanact cttgcgacag gtacagattt cggattcaaa 120  
 gctagctggg ataccaagtt aaccaatgca tccaagttgc cttcaagctt cttagtctca 180  
 gatgatgcag ntgagtttgt agctacctca tgcaactctc taatgactat agcatcattt 240  
 cttgcgctaa actgctgnga gttggaagcc atctttctcaa tttaaatttct ggcttcagta 300  
 ggagtcatgt ctncaagggc tccaccactt gcagcatcta tcatacttct ctccatatta 360  
 ctgagtcctt cataaaaata ttgg 384

<210> 31111  
 <211> 167  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31111  
  
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 tccttcagaa tttactgttt cttntgcta atatgtaaat ataaattgta taaggctatg 120  
 gtgtaaaaac atggtctacc agctcaatat ctatgggtta tgcttct 167

<210> 31112  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31112  
  
 ccttgggcaa tccttaccat acaagacaat tttgtggtgt tgagttagac cctaaacccg 60  
 aaatctaaga tggattaga gcctatccta gatacattgt tggggcacca acattgccac 120  
 gctccaggcc catagcccta ggcattaggg ggtgtgttgg acagcttcct taattgcagt 180  
 cactgctaac ctgctntaat tgcagcagca tatgagagtt gggttgccaat gtctcagaan 240  
 aggctaccta tgaagggact gaccagaacg gctgagtga gcgtcgtagt gtgcaatcaa 300

tgagtctgaa acatcaactc ttaggggggtt gagatccac attaaactaga gataaggcct 360  
tagtattgct tataaagttt gggcaattct caccatacaa ttc 403

<210> 31113  
<211> 281  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31113

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gggtgattct ttgaaagatt catgctccat cttgcacatg ttttgcagct ggattctatt 120  
cggagccata tcagaattgt actgatactg cctaatagaag gcaaccatta ngtcctttcc 180  
gagaattgac tcatgaagggt tccagattag tataaccagct gacgggtttcc ccagaaagac 240  
tgtcctggaa gaagtacatn ncacaatttt catttttctga g 281

<210> 31114  
<211> 251  
<212> DNA  
<213> Glycine max  
  
<400> 31114

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gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120  
aagattaata ccagattgtt tcaacaaaca aagccttgat tcaagaattc ttcaagatca 180  
agccttgctt cacaatgaaa gggttcaagt cattcaaggc acatgtaatc gattaccaat 240  
acatgtaatc g 251

<210> 31115  
<211> 257  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31115

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tgcgaccatc aaggctgac aaaagcaagc acaataatgc tatgctgaga gccttgaagt 120



aacaccctat ccttcacta gggagctggc caagcctcac cctacagcga gtgaaggtac 180  
tcaagtcatg aacaaagggc ttacaatccg agccttcatt gtttaccaa caagcctgga 240  
cgatgaattt gatatag 257

<210> 31116  
<211> 386  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31116

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ggttagagtt cctttaagat tacgattttg agccttagcta tcattccaggt aaagccaatg 120  
tagtagctga tgccttaagt agaanatccc ttcaaagtgc tgctttgatg gtttagagact 180  
tggatctctt anagcagttt agagacatga gtttggcatg tgagatcacc tctaatagca 240  
ttaagttggg tatgttgaga gtcaccagcg aactcttgag cgagattcgc gagggtcaga 300  
agtctgaccc attcttgtca actcagttag agtccatagt cgcanggaga gagagtattt 360  
ttagagtggc tactgatgga gtcttg 386

<210> 31117  
<211> 344  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31117

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gcttatccac tttggacttt tctttntgtg gccttttaga gggaaatgca gaaaggattt 120  
tcctgtgcac tagtgaagaa agaagcatat tctcaactca actacccaac aaaaggata 180  
agagactgtc cgttgagact tgagaagggtt ctttctattg cattnttcct accctgaatt 240  
nttctatgat taccacgtta cttttgcctc tttgaagagc ccaagcctgg agagggaaaa 300  
tgtcatttaa cttaacccat gccttacatg atangtcaca aaat 344

<210> 31118  
<211> 452  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31118

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gtctatcaaa tntatgttta attggatgat atatatatat atatatatat atatatatat 120  
atatacatat atatatatac atatatatat atatatatat acatatatct atatatatat 180  
atatacacac acacacacac aacctttcat ttccacatat atacaccac agacactctc 240  
tctcgagac atatatctct tctgtctctg acacagtgtc tctctcaaac aatacacact 300  
tctctcgca gcatccttga gcaactcacc cggcgcattg agcgcatgaa caaactaata 360  
tacgcactgc acacacatta tcatcccacc gtgatacccc gccactacct tgtgagggat 420  
cttctctcac tcaacagaca ctgaatacac cg 452

<210> 31119

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31119

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ggcacttgca tagattatcg atttgatag agttattatc tacaaaagag agttctcttt 120  
agtcttgggg ttgtggtggg gacattgctt tgcaatatgc atattcgcag ctgtggttgt 180  
gtaatagtaa tagcattttt taaagcatct ttaatagcat ttttgtgtaa tagtaatagt 240  
ttagttttta aaataaagta ataactctta gaaaacattn tctattatcg taataaactt 300  
ttggtagttt atttaaaatt aaatntatca ttntttacca tgatattatt acatcgatgt 360  
ttataaagac cacattatgt atgaatgga 389

<210> 31120

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31120

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aagttattgt cgtttgaatt tgtttagagc ttatgttttc aattacgagc gttttgatat 120  
cccacgggac acaatcggaa atccgagtta aaagttattg tcgttagaat tttctcatag 180  
cttccgtttt caattacgag cgtctcgata tctacggga cacaatcgaa catccgagtc 240  
aaaagttatt gtcgtttgaa tttgctcaga gtttcagttt tcaattacga gcgtctggat 300  
atattacaag actcaatcag acatccgagt taaaagttat tgcgttnga ctnttcatag 360  
agcttctggt ntcaattaga gcgtcttcat atattacgag actata 406

<210> 31121  
<211> 243  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31121

tgcattcgga attgcgaaag ccatgctcnc tcattangat tcgttctgc catctcaaat 60  
aagcaaatca aacataataa gacaattata gtttctgttt gaataacctca ccactcaag 120  
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180  
ccccttgagt tcttaagcaa ttcaagagat tatgtgccac aacaaagaac aattcaccaa 240  
aat 243

<210> 31122  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31122

ttatcatttt actanattca aattgncata acatttcact cagatgtctg attcggagac 60  
ataatatatc gatatgctag aaattgaaca acggatgcc tcgggaaatt tgaatggtca 120  
taacgtttca caccgatgtc cgattcgggg acataatata tcgagatgct cgaaattgaa 180  
cagcgggaagc tgtccagaaa ttcgaaatggt cctaactttt cacacagaag accgattcgg 240  
ggacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaca aagtcgaatg 300  
gtcataactt ttcacacgat gtccgattcg cagacataac tcatctaaac gtcctcaatt 360  
gaacaacgga agcaatcgac aaatttgaat ggaataaca 399

<210> 31123  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 31123

tgagatcttt agctcattct aaggcttatg agttattttc gagatattga gtattctctt 60  
 gatgtatatg gaggagaaca caagctagtt atttatagag aaaataatta taatcgtctt 120  
 taatcaatta aatctacaaa gtaattgatt aattcaacga agtaatcaat tagattatct 180  
 ttttaatcga ttaaagtatt cttaccaaca tctggacata actcaagaac aatgtaattg 240  
 attaaatact ccaagtaatc gattaaagtg ttcttattca cttctgaaca cctaagcgag 300  
 agagacgtaa tcgattaaat cacttggtaa tcgattaaag tagagactcc tgataaatca 360  
 gccactgtct caaacaatgg gtaatcaatt acgagatatt 400

<210> 31124  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31124

cgattgtatg tanntcaatc gcancaccac ggacccggga ncctctaagn caccagcggc 60  
 atgcagcnnc gangtangca ttagttgtag gagaacggag ggaggngaag cnaannnnngg 120  
 gagcgcacaa ncaggaaacng gccangncan nagnnnngaa accatangcg ggacgaaaga 180  
 ctaaagcnga aaaaacactt anggcngaca cgacgaagnc catggagaag ctaagaaaca 240  
 ttctgctaac tctgaaggaa cacaatgtca atagttatac gaccattaaa cagatatata 300  
 atgcacgaag tgcatttcgt tcgttcataa gaggaagcga tcttganatg caacatctga 360  
 tgaagcttct tgaacgtgat cagtatatctc attggcacag aatanaggat ggagacgtgg 420  
 ttcgtgatat cttttggtgt caccctgatg cagtgaatgt agtcaacgca tggatttcgg 480  
 tatttttgata gacaacacct acnaaacaga cctgtacaga ctccg 525

<210> 31125  
 <211> 306  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31125

ntgaccattc gaatttcgag agtgcttccg ttgttcaagt tcgagcgtgt cgatatttta 60  
tgtccacgaa tcagacatcc gagtgaatg ttatgacat tcgaatntgt cgagagcttc 120  
cgttgttcaa tttcgagcgt ctcgatatat tatgtccccg aatcgaacat ctaagtgaag 180  
tggtatcacc attcgaattt ctcgatagct tctgttggtc aatttcgagc gtctagatga 240  
gttatgtacc cgattcgaac atccgagtga aatggatga ccattcgaat ttctcgagag 300  
cttccg 306

<210> 31126

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31126

agcnnngnca ttttctttat cccatnngaa ctntnngnc tttntcagta agttcatgat 60  
cggcctagcc ttctcagcta tccaaggtag aaatcttatc aaagaggcta tgcgtcctgt 120  
gagtctttgt atctctttga aagtcttcgg actctctatc tcaatgacga cttgacattt 180  
atctagatta gcttgatgc ctctttggga aagcataaaa ccaaaaaatt ntctctctcc 240  
aatcccaaga acacattttt agagggttaag tcgtatgtat gtttttggat ttgtgaaatg 300  
atctcggcta ggtcctcaac atgggacttg actccatngg atntgaccac tatctcatca 360  
acgtacacct ctatatttct acgaatnnta tctttgaaga tcttatccat g 411

<210> 31127

<211> 337

<212> DNA

<213> Glycine max

<400> 31127

tcttcaagaa aagattattc ttggtcttat atgattctat gaagataacc tacaactaaa 60  
aatggtttct gacatgggtc tgtaaagatg aaatttttga aaatggacaa gcaatgacta 120  
tcgaacacga aagtaaactc ctgctttact ttttttattt gttatttgct tatttatttc 180

tcaatttaga aataactcaa tggacaaaat aatttataaa aataacatat tagccaatga 240  
cctacattca atttaaataa atgggtcatga ttctttactg tcagtgactt ataacccaag 300  
ttaacaaaag ggtctattga cataatactt gtagttt 337

<210> 31128  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31128

agctnCGata ttagctgttc cattttanca anaaacacaa gnggaagttt attcagaana 60  
ttagagctta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttga gtggttgccct cgctggaaag 180  
agtgattctt tccttcctat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240  
tccacctctg ccataatta tctcgtggcc ataactccca ttntatgcac tcaaattaag 300  
tgattcttga gcctaaattg actntcanaa cgagaccttt cacctcgntc tgaaatcacc 360  
tcatnnggag ccctgtagct tcagttattg ccatgtctat atttctgtcc agccaccact 420  
taacctacat gttaccatcc cattcatcca ttttat 456

<210> 31129  
<211> 353  
<212> DNA  
<213> Glycine max  
<400> 31129

gcttatgaat ccatcatact cttttccaca ttatctataa gttcctcttt caaaccatt 60  
ccgaaacaca ccagtatagt agacgcggag ttttatttga gcaactgagt cttttacaag 120  
ctcccgttgc ttctgtgtt agaaaactaa ctttaagagt attcaccaaa aaaaaaata 180  
aacaaacttt aagagtcata agttgcttat ggaaatatac atcctgtttt agccgttaaa 240  
aatacatgct tcgacggatc aataaattta atggtaaagc accacaattc tgtgattgat 300  
gtgggtctttt ttacgcagca agaataaaag taccttaacc attaaatcag att 353

<210> 31130  
<211> 399

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31130

agctnctant ttttngtttc anaacttngg nnnntctgca agnnggaaat tctgcagaaa 60  
acaaaatggt ggatcaagtg gnctcagaat aattaagaaa gggggggtga attaattatt 120  
aatgtgtcct tactaattaa aaatttaacc ttcttaaatgt tactagattc aattangctt 180  
ttactactaa gttaagaaag taaagaacag aaataaaaac ttaacccaaa gtaaaagcga 240  
taattaaaag tacatagcag aaattaaaga gtgtanggaa gaagaagaca aacacaagaa 300  
ttatactggt tcggccacaa accgtgccta catccaatcc ncaagcaacc tgctgttctt 360  
gagaattctt ttaaccttgt anaatccttt acaagccaa 399

<210> 31131  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31131

tgacaaacaa agctaatcga agcaagcaag aaataaaaatc aattattggc acaaatcaa 60  
ttgtgcaaaa ggcatttgaa atggtaacat cttttaatat tttatattca ttntcttata 120  
agttatataa taataactca tttttttatt ntgttatttt ttatatgata tatgaaagtt 180  
tggtgaaatt tatataaaga catcatacat tagattatat tatttaattt gtcttttact 240  
atatttaatt ntaatagaaa gaagattcaa aatctggtga atggccagat gctatggaaa 300  
gttggaaggt cacgcacatg agatctaagt gaacttggtg cattccaaaa ggagaagaaa 360  
tcatggtaaa gaaaaaatc atttaaagtc ttgatgtcaa tattagaatt aaagacatta 420  
atggtattat gatatcatat ct 442

<210> 31132  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31132

agcttgagca tantaagtta ctcccgcat ntatctctag catgcattgt atgttgggtct 60  
 cgtcctttgt cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc 120  
 actgcgcccc caaatgcgca agtaagaaga gataattttc cgagctctcg tgtccgtaaa 180  
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240  
 gcatttgtcc gttatcatat tccggcctca ctttttgcac gagtcattggc atcatcatgc 300  
 atatgcgttc aacaaacttt ntgatctgca aaattgcata ccatttgttt tcatgtttgc 360  
 tcaccttgc gttntcctct acaaaacana nacaaaaaag ggggaagcgt gaaacttcac 420  
 actacattct tagttcca 438

<210> 31133  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31133

nttcgcanag cttacggtaa aatctgggac ttagctatgg tagaagtctc cacagaggtc 60  
 attgcctccc ttgccagta ttatgatcag ccgttgagggt gttcacctt tggggacttc 120  
 cagctatcac ctatggtaga agaatttgaa gagatcctag gatgccctct agggggaagg 180  
 aaaccatacc tcttctcagg gttctatccc tcattagcta gaatttccaa gatagtccaa 240  
 atctcggcgc aggaattaga ccacaggaag caagtcgaaa attgggtgggt tggaatactg 300  
 agaaaatatt tggaggcaaa agcaagaatc tcggcaggta aaggcgagtg ggccccattc 360  
 atagatattc tcgcattggt gatc 384

<210> 31134  
 <211> 221  
 <212> DNA  
 <213> Glycine max  
 <400> 31134

atctactggc ttagcgagcc atcccgttag cgcaacactg ctgggcttag cgccaggaag 60  
 actctggaag aagatgagct gtacagggtc gctaaacgca ccggttcac tcactaagcg 120  
 caccacttca gttaatccgc taagcgagaa aggcacgcta agcccaacat cactaacgtg 180  
 tgctaagcgg tccatacgtg cgctaagcgc atgagcacga a 221



<210> 31135  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31135

ggtacctgga gatatgtcgc gggggtcaag agaccttggg gacgtcaggt ggggtgctat 60  
 tgcccaaaac caagcttgac caatcccaac ccaaccggg catagtcagt caatgagaac 120  
 ctatgatgta cctaaacagg cgagctcctg gcagtcaact gataaaagga acaaagaacc 180  
 acanagcagg agacttgtgt ggtggctggc cagctgtgaa ctatgattga tatatgggat 240  
 atgggctctg gtaatcgatt ac 262

<210> 31136  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 31136

taccagctg gccttgaatc agatatccgt gcctatcgca aaggtttgtg ggttgctc 60  
 ctttggtgac caccatacag acctttgcc ttccatgcag caacctggag caattgagca 120  
 gcctgaaact tatgctgcaa atatttacia taaacctcct caacctcatc agcaaaatca 180  
 accatagcag aacaattatg acctcttcag caacagatat aaccttgat ggaggaatca 240  
 ccctaacc 248

<210> 31137  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 31137

tgccaccag ctgcccagg cgagcaaggt tgcttctcc agaagcaaca gccttctgga 60  
 ggaatcttct ggagggccca agtgggcctg gttgctattt gcaccttat tttactaaa 120  
 tacacccct gccttttttt tgggtattct ttttcgtaa agttacggaa acttatgaat 180  
 ttcgtaacga tacttgtttt ctttccgtaa tggtacggaa ccttgcgat tacataatca 240

tccctttttt gacttacgga atgttacgga acctcactaa ttgtgcaacg atgcttcctt 300  
 ttgatttccg gtgtgtcacg gaacctta 328

<210> 31138  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31138

agctttacaa ttttgtttta aatccaagcc cataaataat ataaaatcta gataagataa 60  
 gataagatct agatgaaata atatctagat gagatcaaat ctagataaga taagataaga 120  
 taagatctag atgaaataat atctagatga gatcaaatct aaataatatc tagatgagat 180  
 aaaatctaga taagataaga tctgatagaa taaaattgtc tgctcttttc aagtccaagc 240  
 ccaattccgg attcaagccc aattgcttat aattctcctg aaattaaatc anaaacacaa 300  
 aattagtcca gtaggtccaa ttgataaaac tgcattattan attgacaatt aagcctaatt 360  
 agtaattaaa atgatgacaa aaaggggttaa gaaatatgag aaaatgatga cacatcanat 420  
 cccctcacac tta 433

<210> 31139  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 31139

tatagcttac tgattatcca caaaaagctt cactgcatca ctatccttga ttcttaattc 60  
 ttgtaataat gtgtccaacg agacagctag gcaagcactc attgtagctg gaacatactt 120  
 agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattggtgt 180  
 tgcaccatac atgaatatgt aacctataga actctttctg tcattctctgt ctctctccca 240  
 atccgcatca atatatccca ctaattcctc tgagctgatg ctgtctatat ttgg 294

<210> 31140  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31140

gttttaaattg cggttaaatct tanagtttga cgtgctgac agtttttttt ttttccggag 60

ttaagaatac ggggtgtcttc caaatacac tttttaaaaa gaatatttta ttaaatacac 120

taacgaaaat tatattttta caaattataa tttgaatata ttttaaaacc attcaaagcg 180

ctcgacagta attgctcgag aaccttcacg ggccatcaag aaacctcatt gggaaatcga 240

tgttaccctt gatagcaaga aagtgaagaa actaatttct tttagaattt tttatttatt 300

gaaaaccata caaaccacat taccgcttc ctttctaagt agcatacgtg aagcaccgtg 360

tgccacataa ctctggngtc tctactcact ctcttggtgc tttgagttaa atcaattctc 420

acttttagtt cctttcnmca ataattat 448

<210> 31141

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31141

tatataatga tgattatagg tgggtgtttg atgccagata catctggtgc aagagttcat 60

tttatgtatc ttcttttatt atcaaattta actgaggcaa gtcattatag ttaggggtgta 120

gcagtattag catccctttt ttgagctcta gatcgggcta taaagccaga ccaaacagaa 180

atcgggtggat gtttgttggt gctacagtca tgagcgtggg accgaattga atgtattacc 240

ccaaagatag atcacctatc catggaagaa gcacaagaag gactcanatt tcctcttgca 300

cgaaggtggt ctctgccaag gaccggacca aatattccca ccaattcagt gagattgata 360

cgcatacat ttgataaact acatattaat gagggtcatt nnttaatttc atgaataact 420

a 421

<210> 31142

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31142

atcttctcaa ggaaacctgg attacctttt ctttctcggg ctcttcagca ttgctcaaag 60

aacctttctga tactttcccc ttttgtgatt gtaacataac catcntctac aattaacctg 120  
 caatgtacac actgttgacc cttcaacgaa tgagctntaa cagaaagttc agtacagcgt 180  
 ccatctaate tccaagctcg gagggtaaca aaacatgcac tcanaccacc aagatccang 240  
 ccactggctc gaacacatnc attcaatcca aca 273

<210> 31143  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31143

ttagctttga ncttatcagn caagtgtatg gaccatgtcg tagccaaagt gctcatcggt 60  
 aatggttcca agttaaactg gatgcctaag agcactttgg agaaattacc attcaatgct 120  
 tcccacttaa agccgagttc aatgggtggtt cgtgcctttg acggcaccgc cggagaggta 180  
 ggggagagat cgatctocca gtacagatag gccctcacac ctgtcaagtc accttccana 240  
 taatggatat taaccccccc ctacagctgt ctgttggggc gcccggtggat ccaactcagt 300  
 ggagttgttc cctcaacact ccaccaaag 330

<210> 31144  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31144

tgccaagaca atgcacacgt tctctntttt catgtccttt gacttttgaa tatatatcat 60  
 ttgtctaatt agtagaatct tgggtgctnt gtaaattttg cgaactctct gtttcaacca 120  
 ttttcttttt tagttcatcc tacataaata catcttataa attattatca tacatcaata 180  
 toctgaatac ttcaatatca ctaaacaaaa ctcatctcca tattagttac tccccctcac 240  
 cccataacct tctattagag aattgagcac aacaaagaaa agtattgaa ataaaaatta 300  
 caattcttac aattacaata gcagcctttt cagtaacaat gctttcatct tttcgagttc 360  
 gagtgtcaat ataaa 375

<210> 31145

<211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31145

caagcttgat cttttattct atatctgaca gccaatgggt gagtcccgtc caggtagtcc 60  
 cgaagaanac cggcctcatc atgataaaaa atgagaagga ggagctgatt cctattcggg 120  
 tgcagaacag gtagagagtc tgcattgact ataggagggt gaaccagggt accaaaaagg 180  
 accattttcc cctgccattc attgaccaga tgcttgaatg cctggcaggt aaatctcact 240  
 actgtttcct tgatggttnt tctggctata tgcaaatac tattactcct gaggatcacg 300  
 acaacaccac attcaccagc cccttcggaa ctttggccta tagaaggatg cctttcggcc 360  
 tgtgcaatgc ccctggtacc ttcaagcgga gcatgattag tattttcagt gattttgtag 420  
 acnattcata gaggtgttat ggatgatntc actgatatgt g 461

<210> 31146  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31146

tgctgacctt gctctagcct ctggagaaat ttttgaagga gaatgtttca agtacataaa 60  
 ggaatgttnt gaaaatggca cattgcatct cattgggcta ctgagtgatg gtggagttca 120  
 ctccagactt gatcagttgc aggtgattat ttgggggttg agctgttttt ccttcattgtg 180  
 tattcagttt attctttcta actaactact tttgtacagt tgttgcttaa aggagttagt 240  
 gagcgagggtg ttaaaagagt ccgtgtccat attcttacag atggccgtga tggtctggat 300  
 ggctcaagtg tggggtttgt ggaaaccctt tgaaaatgat cttgcaaact cgcgcgcana 360  
 aggtgtcgat gctaggatag catcacgtgg aggtcgatg aatgtcacia tggatcg 417

<210> 31147  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31147

agcttgacat ttatctgggt cgcatngngn agcagattga tagcgtgatc tgtggatcga 60  
gatggcgga ggtttgtaag tggttgaaac aggcatgagt atttcgtaag taactcagaa 120  
atctcgggta agatgggtgg tgttgtagct gattgtgtgt ttgtttccac tctaataatgg 180  
aagaaggtgc tagaggggct cctatgtaga agacgacgca gttgcgaggg agacacgggt 240  
tcacctatth gctcacgttc cccctgtaac tccacaagct taccctcagt gatgaatttc 300  
atggatggag acgtgtagtc tgtcagaacc ggtcctaata ttntgagcca ttcgactccc 360  
agaactacat ctgtgccaca taagggtagg atgtgaaagt ccaccatgaa cgtatgctcc 420  
tgcacctgt 429

<210> 31148  
<211> 243  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31148

aaacccgaaa agacctgatc tacgaattct ttgtgaaagg ttcgaagagt gtatttacgc 60  
acagggaaaag tattagcacc ccacgcgtcc gtcacaagag acgacaacct ttaatcaaat 120  
gtgcaaatat gacatcnaat tatattcntt tcccttttta cggctctaat gtctttttat 180  
gcctttntta tgttttatct ttttgtggtc gacaagggtg tttccctttg cttctacgta 240  
ttc 243

<210> 31149  
<211> 464  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31149

agcttggaga ttatgcttct atgtatgana agaaagaggg agagaaagag agaggnggga 60  
gcacgacatc gaaggaagaa naaggagag aagntgaact ttgagttgtg tctcacaaga 120  
ctctcattca tcaaagttac acatgcttct atttatagac taggtagctt cctttagaag 180  
ctgtcttgag aaaacttcct tgagaagctt ctttgagaaa acttccttga gaagctagag 240  
cttagctaca catacccctc tcataactaa gctcacgtac ttgagaagct tccttaagaa 300

gattcctaaa gaagctaaag cttagctaca cacacctctc taatagctaa gttcacctcc 360  
 ttgagatgag aagctagagc ttagctacac acccncatata atagctaagc tcaccncat 420  
 gacannaaaa catgaanata caaaanaaaa aagtccttac taca 464

<210> 31150  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31150

tgagactnta agcagtgccct gtgattagaa tttcattnta atactttgga gtacgaaaat 60  
 tcaaaaactt tataaaaaaa aaaaaaaaaa aaaaagtagc atgcagtgct acaacaaaag 120  
 cacaggcaca tatgggaaaa taaatgaagt gacgtacaat taagtccttg aaagaaagaa 180  
 agaaagaaaa aaaaactagt ggaagctcaa taatggagga agagaaagtg tggagcagag 240  
 aaagaaacag aggtgtgtgt ggcttcttgt ggagaaggaa gaagaggaag gaggagcagg 300  
 tcaatgtcaa tgtgattnta taaagctaga aaatgaatat aatacaataa ttccttacgt 360  
 aagagttttt aaatgtatat tggcattaat atacttga 398

<210> 31151  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31151

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 cacaacaagt tttccacatc cacaatgcgc gcataaaccc accatcccct gttgccacc 120  
 tccaactgag ctcacgtact cccacgtagc ccatatcctc gtttctctca acaccgggtc 180  
 cccatcaatc ctcccaagct tcccacat caaagtaata caacattcaa acagcacana 240  
 ctatcacagc caagaaaaca gagcanaggc agannactct gccaaaacac caaccanaat 300  
 cacagctttt ctacttaaa gacccagta acaattcctt cgttccaatt cgttaaccgt 360  
 tggatcgaac tccaaatfff actggaagtc tctagtagat aagcctacat tntgaaccgt 420  
 gggatctact agcanacatc cagaactcat tct 453

<210> 31152  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31152

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 cgcatagtta agccagcccc gacaccgcc aacaccgct gacgcgaacc ccttgcggnn 120  
 cgatngaata taacttcnnn atatgcatgc tatacgaacg cattaccgat gagccctgac 180  
 ttcccg 186

<210> 31153  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31153

agctaggctt ttgctattgc tgaagagacc agnattcaga ctttgctttg tgaattacag 60  
 gtcacacaca ctacaccggt gttttttgtg acaacatgag cacagttgcc ttagctcaca 120  
 acccagttct gcattccaga accaagcaca tggacctgga cttgtctttt gtcggagaaa 180  
 aagttctgga gaagagaatt caagtgggtc atgttcctac tattgaatat tgatcaatat 240  
 gcagacattc actaaatctc ttaccccatc taattntact ctgtttaggg acaagctcag 300  
 agtggtaaca aagattttgt caaccctca agagcttgcc aggggtatta gagtagaaga 360  
 gtagaattac tcctttcttt tatttcagtc tagcatagtt agcctttata gnntaactca 420  
 actagtgaca gttgtaataa cag 443

<210> 31154  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31154

tgtttacacc taaatacaat catggtattn atactataaa ttaagattat attctaacat 60



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 cataattgga aaaattctac ataattatct agtcataatt cattatatat agcataaatt 180  
 ttttgacttt taaaataatt taaacagtta ttttaattata taattaaatg ataataataa 240  
 aatatttcac attgtatcag cattaacctc ctgcttccgg cttttgtgta caacatggag 300  
 tctttaattt tccatcgatt atgcggctga tactttgcca cacataaatg tataagaaat 360  
 atctttcaga tgttgactag tagttgattc attattttac ggggccagat tattctgaac 420  
 atccattcca ctggtgcaat g 441

<210> 31155  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 31155  
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 agaagaaagg aggagaagag ggaatgatgg tgttcctaga caaaaccgaa ttgatggat 120  
 taaactcaac attcctccat ttaaaggaaa gaatgatccg gaggcctact tggagagga 180  
 gatgaaaata gagcatgttt tctcatgcaa caactatgag gaggaccaa aggtgaagct 240  
 tgccgccacg gagttttccg actatgctct tgtgtg 276

<210> 31156  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31156

attgagtttt ctatgccatc ccttaatgaa atatttatga tgcggtaaa gaaatgttcg 60  
 atcggcgctca tgcggtgatg cttctttttt agacctcgat cggatcatctt tcttggcgga 120  
 cgtcgactgg cacttttttc aatcaatatc ggtagaaaat atttttttgc cgagatgggc 180  
 taattgtttc gtggtcgaat aaatggaaac atgccagttt tggccgacac aaaaacgtgg 240  
 ttgggctcgc acanaaaaac ctagccgacc tacattgtac attttttatg 290

<210> 31157  
 <211> 536

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31157

nggcaccgtg gatgatgcan tttgcaatac nggcgaangc agctcggacc cgggatactc 60  
tacagtcgac tgcaggctgc aggttgatgg tantggtgag agacaanggc atggacatgg 120  
cgaaactaag tgagctccgc caattgcaca ctactgcag acttcacgaa cctanagtgc 180  
cactccagaa caagactcac gtatacttgt ggtgcttacc tatctaccct agtgcacagn 240  
caaccacatt gtggatcctt tgcaacggta tcacttaaac aacattggaa tgggtgatga 300  
agacacttga tgataatcaa ctgatttaac tggaaacctag tgtaaaaacta tgcacaccat 360  
taactaatat aagttatcta tgcgatggct gataagataa tcagctataa cggctcaaatt 420  
ctatatactg tatatatata tactatatac atatgaccgg ctaatnttgg gtgataatgt 480  
gtangacaac atggacatgg taattcacgt gcggatctct cacactcagt tatacn 536

<210> 31158  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31158

cacacacacc acttttntaa attatctgtg actaatatct acataatcct acaantaann 60  
nnaaaagccg atgagcatgt gaaccatgga tnacacaact aagataccta acccgacaat 120  
aagagacagt caagacgtgt atttttcacc aactatatgc acacgcatag gattacaaga 180  
gcacaacatt aaaaactaca tcatgggaca caaaaatgcg acatcacaca ctgaagtacc 240  
tttacattcc agccaaaact aactacctgc atgaaaagaa gagtacgaca cgcacaagga 300  
gcacccccat cattgcagga aaacgacggc gaaacacaca ctgagctatg atacacctgg 360  
ggagatgaga gcacgagaga aacaacagat aactcactaa gttatgatgt gagggaaaca 420  
tactcagcat attacaagat gtcaaaacag agagagcaag gatatgactc cctctacccg 480  
aaaatatggc gggcaaaagg ccataggcct actcacaacc gacaccccc 529

<210> 31159  
<211> 439

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31159

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aattgaatta agaaaaaaaa ttgatcataa tgatttatcc ctttaggtat aatacaatac 180  
caaaattgaa atatttatag catattaggt ctacaatttt tattcttaca atcttaaaaa 240  
ataatcattc tcattatgta tgtcttcta gatccaatat gcaataaata tatcaatttt 300  
agccttccac catatctaaa ggaataaacc atntaataat aatgactatg caattatatg 360  
tgaatgataa aattagtttg tgggtacata atcacttata naaatcatat anttttatat 420  
tttaatttaa cctataaat 439

<210> 31160  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31160

tccattntcc tttctacttt gaatgagtaa ttcttaagtt tcatacatca tcagggtccat 60  
ccttatattt ttttttcttt ctaattatta aataaaaaata ttgttttctt gaagtctctt 120  
ccttccatgt aataatgaaa ccgtaagatg accaaattaa ttntacttgc tagttatttg 180  
aagaaccaac gtcgcacgcc aaaagtcaaa acctacaacc catctgtcat cccgattcat 240  
tactctcgga attacttcag ggtcatttca ttgttatctc ttcttctttt tcacaccctc 300  
atttaagatt taaaacacct aanataccct tctttctctt taagaattaa aatcttctct 360  
cctactcatg tccatg 376

<210> 31161  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31161

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 ttaattnttt tctttacctt ctcttccatt gttgtttctt catttttctc catgtatctc 120  
 ctcacatgtc ttgtgctaaa ttttggttaac atgattcttt agagtttcca ccgattaaac 180  
 ttgctataga agctagattt gattntctat tgttcaaatt tcttgttctt gttcttgaac 240  
 catgaattgt gttgactnta ngttcctttg agttttgtct tgttattttt tgtggctgat 300  
 acctaaacca tanaattctt acaaaaaat taaattagaa gaaaacctan aaaatctaga 360  
 gtgacttggt cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgtc 420  
 acataagatt tctta 435

<210> 31162  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31162

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 ttattggcgc caactaaaaa agattgtaaa cttagaaatc ctctccaatc gccgagtaga 120  
 gcaactacag cacgttcatg tctcagaagt tcaaagttca atcaaagagc tcttcaatgt 180  
 ttgggtcaagc aaaaagaatg agtctggcta tgcgttggtg gagttgaatc aatgggtntc 240  
 tcatttgaca ttcaacacgg ttcttcgagt ggtcgttgga aagcgacttt tcngtgctac 300  
 aactatgaat gatg 314

<210> 31163  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31163

agcttgagct aaatttgact accatnacct tgaccaggtg agaatgccaa tcttcctcgc 60  
 gaagcaaaaa aaaaaaaga agagaggaaa atttccaatc aaaggaaaaa ggagaaagaa 120  
 aatttccaat caaagaggaa gcaaaaaaag gagagaagga nnaatttcaa tcaaaggaaa 180  
 aaagagagga aaggaaattc ccaatcaaag agtgggagaa agcaaaaaa aaagaaagaa 240

aaattcccaa tcaaagaatg ggagaaagaa aaaaagaaga aagctcctgg tcaaagaaac 300  
 cagaagatat gtgccgagag gtccttggac cagacgatat ccgaacaata cagaattgtc 360  
 accaaatgaa caaaagaaag aaagggaaac catgacctan aagtgggtctt ctccctttat 420  
 taccaaccaa aatcctgtgt gct 443

<210> 31164  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31164

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 tcctaataat ttttttttct ataacgctgt atcttagtta aatgatcaaa gtttaattct 120  
 acttcaacta atctaaatgt ggtaataacg tccttttggc tgcattgcctt gttatatagg 180  
 gggaaactat ctaanatgaa acttaatctt attanggagg tatttttcagc anaatccaaa 240  
 ctcatctcta ctttatctta ttgcttatgt tncagggcac accactggat tctatactca 300

<210> 31165  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31165

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 gtacgttgag cattttctcca ttgtccaagc atatactata tgaactatga aatcagttct 120  
 atatgtggag ataataaaat gacatgactt ttaatgtatt ttacagtga tgaataaatc 180  
 attcatatta attatgtaga agctagaaag gataaaatga tacactntct tcttcttct 240  
 ttctctttta atttaaacaa ctaanagaat tatcatnttt tttattttca ttntctttnt 300  
 tatccaaaca tgacatagaa tggtttagtt agaanaatat tagcaaaaca canacagcgg 360  
 ngctgaagtg aattagttaa gggctctttt tagtccaagg accggcgctg atgcatggaa 420  
 tatgaaaata tatatataaa acgaattatg ataaaac 457

<210> 31166

<211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31166  
  
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 ggatcatttt taagggtccaa cgccttgaaa tgatcacctc ttaagtaaaa aaaaaaatca 120  
 cttgataagc tagaactacg taggtctgat ttcttcatcg caattgagga tacgtaggag 180  
 caaaagcccc gcttttgtcg accaccccgga gagatcggtta atgggtccaac gccttaacgt 240  
 ttctctcctt tcaaaatcaa aagatcattt aatgggtccaa caccttanat gacctttntg 300  
 ttcaatcaaa atatatcttg caaaaagata aaaaacaact taaccaaaca ctntgttccg 360  
 aaagaactac gtangtcttg attcctcatc gc 392

<210> 31167  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31167  
  
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 acatgcaaga caaaattgat tgcaataata aatgagataa gggaagagag aaatataaac 120  
 tcgatttata ctgggtcggc cactccccgt gcctacgtct agttctcaag caaccactt 180  
 gagattntcc tttctctttg taaaaccctt ttacaaagtt tgaaccacac agggacaacc 240  
 catcccttgt gttcagaaat tcttacaact taagagaccc tcagtctctt aatcaatctc 300  
 tttgattaag aagaagaaga agaagaattc tctcttttaa gagaaagata atacaatgaa 360  
 gttccataaa ctcttaatag atttg 385

<210> 31168  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31168  
  
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aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120  
 attacgggac tcaatcggac atccgagtaa aaagttattg tcgtctgaat ttgctcaaag 180  
 cttctgtttt caattacgag cgtcctgata tattacgtga ctcaatcggg catccgagtc 240  
 aaaagttatt gtcggttgaa tttgctcaga gcttctgttt tcaattacga gcgtctccat 300  
 gtattacgag actcaatcgg acatccgagt aaaaatta 338

<210> 31169  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31169

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 ctccagcgtg gaatagctaa cactaaagcc atgagctcct tttcatacgc agattttgat 120  
 aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180  
 acagcaccaa ttcctctccc cgccgcatca cattccactt caaacagaat agagaaatca 240  
 ggtaacacta gtactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300  
 gcatcttttc cccaaataaa gttattcttc ttagtcattt cagtcaacgg gttagcaatt 360  
 gtaccataat cctttgataa tttctgtata accc 394

<210> 31170  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31170

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 ttctgatgca atttgtgtgt atgataattt tggtatgctg catctattgc tgctgttctt 180  
 gcttgttctt catcacttcc ataatagcct tggctatcga tgtaggcacc ttgggcaccc 240  
 gtgagggccg tatgaactgc taacgttccc tttntactca ttatttattt cttntattg 300  
 gtaatttatt caaatgttct catcgtcac tttctcctt cgctatgttn ttttctttt 360

ggccaactat ggcgaaactg catcgtgtcg ccgtgttgtc gccaccatct tcgcgatcgt 420

<210> 31171

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31171

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ttcaaggaag tctacgttac attaactttg attatatact aacttgattg gttatgtcat 120

gtttgtttta taagatttga tgcccaagtt ttctgaagtt gttgaaaatg attcacaatg 180

tggtgaaaaa agaagcaact aatttatcaa aggattntga agagttaacc cctactaaac 240

acaatttcag ttgctattca gctatgggag aattgactcc taatgaaagt tagtctgcaa 300

cccanaataa ggataaatga tcttttgctc aataattctg gagatttgat tcccgttgga 360

actgtatttg gaactcanat acattcacag cccgaanaca ttgaagggtgc atataagcaa 420

ctgggtggat gtttgataat gtcanaacta at 452

<210> 31172

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31172

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ataaagcggc gattacatga tgcaagacca aggaaagatc tcacgctacg aactggtaga 120

aggctcggcc aagtcttgat agcatgcaact tttgtttgat caacggatac tccatcttta 180

gacaccacat atccaagnac accacacttt caaccaagaa agcacactnt tccctcttgc 240

catagagtnt tcgggctctt aggggtctcaa atatttggtt canatgagtg aaatgcccct 300

ctatagatnt gctatacacc aat 323

<210> 31173

<211> 432

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
 <400> 31173

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gccccgtaaa aggttgagtg agtttaggtt atatttatcc ttgccctgct aaggtgcttc   180
attgtcatgc tggggtagtt nttcatctta ctcaagtact tcttccttat gctaaggtag   240
cttttcctct cagtgttgag ctacctcctt gtctatgtca gttccctcat cctcaaactc   300
aacataacct tattgagttg atttcattnt caccctaana aagttgactt ggattgngca   360
tcatttaatg ctcatgtan gtggctcctgc ttgangtcgt ggagatggta gtgtanaatc   420
tctatgatga ca                                                            432
  
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<210> 31174  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 31174

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ttctcaaaat gaagggctctg tgtttggaag tggcgatgag gtggagaaca acctcgggtg   120
cggaggtagt gttgaagatg gacccgctgt cctcgagggt gggtcggagg gtgcggtagt   180
tgacgaggtt gccgttggtg gccacgccga cggagccgaa gcggtagccg gcaacgaagg   240
gttgcacgtt tttgagcatg gattggccgg cgggtggagta gcggacgtgg ccgatggcga   300
ggctgccggg gagctgggtcc agcttcgact ggttgaacac gtc                                                            343
  
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<210> 31175  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31175

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atcgattaca taccttgtgt aatcgattac aggcctttta attcaaattc aaaattttca   120
aattttttca gaaatcaact tagccactgg taatcgatta catcatctgc taatcaatta   180
  
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ccagagagga aatatcatat ttttgaaaag ataattgttc tttaaaaaac ttttgtaaaa 240  
tatttccttt agccaaacct gtgcaacatc aattaaggaa ttctttctaa gattctaact 300  
atgtatatog ttcttcttgc atttctgaat tcttgactta aatcgcgctt atctttggca 360  
tcatcaaaac ttcatatcat atatgcttct acatcctana gtaatacttt gaaagacaga 420  
gaagacatca naatgatttt tca 443

<210> 31176  
<211> 245  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31176

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acttctttga gaagctagat ccttatctat ccacaccctt ctattaacta aattaacctc 120  
cttaaaaata attacggata aaaataacac aacaaataat tcaacatcaa acataattac 180  
taataattta tatatatata tatatatata tatatatata tatatatcan ggtgttacac 240  
ctact 245

<210> 31177  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31177

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cactctgcat gtctgtcaat tgaccatgag ataccacgt cgtgtaattc ttcttaatcc 120  
catcacacaa tagatgggtcc catatgtcgt ccagtatttg tcgccttcg ttcaaacaat 180  
tgatacgagg acactaatat tttccatctt catccagtcg acttctttnt gaagtaaatt 240  
gcaagaactg ctcgacgcct tctcatatt ctgggttgat gtgactntca ttcatcaaac 300  
ttcgatccat ctgagtaata actctgtgat actcanagtt attcgatgct tganaatctc 360  
actnntttat tatagggtgtg gccctatccc attcangaag accgtctntt atggtagctt 420  
catacgtca 429

<210> 31178  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31178

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 cctttttaag aggaaacaga tcgagacact gacgaataca aatcacaaaa ccgtgaagaa 120  
 aattcacaaa aacgctaaaa tttcataagt tctcaaccca cattcccca accccacaag 180  
 ttttcttcat tttctcagca aacaagcagg aaaaaaaaaa ggcaaatacag gaggattgca 240  
 cattatgcac aaagtttagat ctgagaaaaa aaaaaaccca aatgcatgca aaaaagaata 300  
 aagaaataaa caagttgaat caacaatgat gaaatntgaa aataaaaacta aaaaaaaaaa 360  
 agtagaaaga 370

<210> 31179  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31179

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 tgtttccctt tccttggttt gaagctcact acaagcctta agtgaaaaac catgatatta 120  
 ccatatcctt aaggaatttt ggagcttttg aattgttttg ggaataagtg tgggggggtt 180  
 ttgtttcatt ggacaacttg ttttggtgac tatgcttcat gatgtatttt gggccatact 240  
 tgatgtacat tgtatattgg ttaaattgtt gacatgctga atgaaatgtt gtttctcaaa 300  
 ggcaaaaaaa aaaaaaaaaa aaaagcaata aagttgagtg aataagatct ttaatggcac 360  
 aagaatgatg aaactcttga gtctactctt catgggttaat tnttatcttt acttcttttt 420  
 tntttttctt aatatgcact tattccccct 450

<210> 31180  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31180

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 catagcaaat aaagtctcaa agctgaatga ggaaggctct gtagaaacta gagtaggaac 120  
 tggcaaagga gtgaatgctg aagctagaac tggtaaagat gaagctggaa tagatggagc 180  
 tgcagtagaa ggagctactg atggnngaat ctcaaaagat gggagagtct ttgacctttt 240  
 ccccttggcc ttgcgaggcc ctctaaaagt gattgagggg tcacgcacgt tccaccaat 300  
 tttcttcatg taagccaaat taatggttgg actg 334

<210> 31181  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31181

tgagttnttt taaaaatcat atttagctaa ataggagaga ccatgaactt taaaaaaaaac 60  
 ctattaagtc tgatgaaccg acctgtttag caataatatt ntatattaaa gatattatta 120  
 ttaatatgat atatagtata attattatat ttaaattata aaattatttt aagagtttga 180  
 caattataat tagtgcttga aatatcttaa ttcgtataaa tataaatgtg taaaaaata 240  
 tacattcttt tctttgggtg agacttaaaa gactttagca atatgtcacc cacaatgggt 300  
 ttccatattt tattgttaaa attgtcttat tattt 335

<210> 31182  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31182

ggtgttgaac ccatcattag tgaccttata atcccagcct gaggtaactt atgcttanta 60  
 acggtacca actgcgttgt atagaaatct atacctggcg caaaaggcta tgggttatgc 120  
 ttctctggcc aacaccacac aaaacttttt cctttcatgc cgcaacctgg agccattgag 180  
 caacttggaa cttatgctgc aaacatttac aacaaacctt ctcaacctta gcaggcaaat 240  
 caaccaccgc agaacaatta tgacctcttc aagcacaaaa tccattcccg atggaggaat 300

aacctaattct tagaggtcta gccctaacaa caacacagca gcctgctctt tctttcaaatt 360  
gatgctgcta aacaagcatt cattcttcac aatcaacaca gcacagccca gaacacaaca 420  
gttgagctct cgaaccttct cgagactgta gg 452

<210> 31183  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 31183

tctatagaag gttcgttcct aatttctcta caattgcac acccttcaat gagctggtga 60  
agaagaatgt ggcatttacc tggggtgaaa aacaagagca agtctttgct ttgctcaaag 120  
aaaagcttac taaggcacct gttctagctc ttcttgacta ttctaagact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggaa ctgtattggtt acaaggtggg caccct 236

<210> 31184  
<211> 512  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31184

ctgactatga ntcnattgca naccgggaac cgagcacgac caggcacctg taaccgccgc 60  
cggcggttta ctttatcttt atcannccg ccagacgaag accagggctc tgagcaagct 120  
ctgcaacaca ccagananag ncgcaaagca gaaggaggaa cgggctgcag aaactaaacg 180  
acgaactggc aaaggagtga acgctgaagc tcgaactggg caagatcaag ctggaataga 240  
tggagctgca atagaacgag ctactgatgg gggaaatctca taagatggga gagtctttga 300  
ccttttacc ttgggcttgc gaggccctct aaaagcgact gaagggcacc gacggtccac 360  
cacattttct tcatgaacgc caagtaatgc gtggctgaga ctcccacaag ataatgaatt 420  
cgaactggca tcctatgctc ttgctaaagg agcaatgata gcagagaaga ctatcctccg 480  
gagtattctg tgctacacac aaactaacag ag 512

<210> 31185  
<211> 411  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31185

tataagaaca aaattgccta aatcatttcc aaatatgcat gtgaattagg aagcatcaac 60  
aagaattaag ccaaggctat tgtgcaagca atcaatgggg caaaaaacac taaaagatta 120  
tgatgatgga tggctcaa at tctcaciaag gtaaacttat cactttcaaa ttgagctttc 180  
aaaactatca tgacatgtag aggaaaaaca aggattttcaa atcacaaaat gtcaagagac 240  
ttttattttc agaacaatta cccattactt gaacatatcc tataattcan agacaaacat 300  
gcaaatttaa cacaacaaaa ctaacaaaat taaactaatt taacacaact aacaaaacca 360  
aaaccaaaga acacactccc cccccccata cttaaacaac acattgtcct c 411

<210> 31186

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31186

agctngntat ttacggatga naaganaacc gaaagtgaac gaaataaaga tgaaagccaa 60  
caaaacaaga aatgaattga aagtctcgga ttcgaaaact tatcggttga agaacgaaga 120  
acggtgaaga acgacaaaaa atcttcatga aattgctcac gaaaatgtct cggaagtgtt 180  
acggaagcac ctcggttgg atttttcttca cgaaaacatg gtttttcacc caaacagtt 240  
gaaatgcata gccaaagggg ttagggggccc tttggaacag cccccctttg cctatttata 300  
agaaaaaggg gaggaggttg ccgcctagca ngcccaggtg agctgagttg ctctctcctt 360  
aagtaaccaa gcttccanaa ttcgaaaaat tgaaaatggc tattngcacc cncatcttga 420  
taagtcaccc ccttttcgta attacgaaaa agtat 455

<210> 31187

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31187

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ttttccaaaa gttgaagcaa ataaattaat ttaacttctt atagataaat ttatccagga 120  
 tgatcttggt atgtatttct tctttgggag attgtaagat tatccttaac ttacaatntg 180  
 aatntatatt ctgaattatg tgagttatat ataagtgggtg ttatgtttga taatggattt 240  
 gtttatttta gctctaaata tattnttatt cttgtatctt ttttagtctt tataaaatat 300  
 gtttatttta tttttgtggt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360  
 gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<210> 31188  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31188

ttagcttgta gttgtataaa ctaaagnngg nggcagcaat gaggaagatg cagaaacggg 60  
 atccaacaag gatgggtcaac ctgataacca tcaccatcgt tacctcaaac actgagcttc 120  
 tactaacaat ggagaccata tgaagtgtgc aattttttat actgatttgg tgcacagagg 180  
 gaagtcactt aatttaaggg aattgaaatc tttacctggc aattcggtag gtaaagttga 240  
 ggtagatgct gatgatatag catataataa agggaacaag catattagta aaacaaaaca 300  
 caggaaaggt aagcttgatg acatttcacc aagtgggaca gaaactgcta agatatacag 360  
 caaanagaat agtagtaatg ctgactgcc aagagctaaa cacaatagag atgctact 418

<210> 31189  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 31189

ttatatgaca ataacagtta ttaaaagttg gaagtgggtga gctgattcac gacttttatt 60  
 tgatattaga aaaatcaaaa tagagtcaat aataaggaga gttaacaagt gaaaattaga 120  
 gtgaatgagt attttattct accatcgag gtcattgttg gctgatgagc ctatttcaaa 180  
 acaacaacat tttaggatta actagcatga tatgagatcc ttgccactac acgggtcact 240  
 cgactgtttt tgtaagattt ataggtaata aatataaata atataatata tttccaatta 300



attaaggtta tcgctagaat caatattaag gttaatgcta gaatgaatat ctatgtgatg 360  
 agtatatcga ttataaaaat ctaaactata tcttctgtgt taacaagaat aaaacaataa 420  
 gatg 424

<210> 31190  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31190

tcttctccat ttgatcacgc gatcttatat gatcatctcc accaccccaa aggaacctac 60  
 gttgtatgcg caccaatttg tccaccaccc ttatgggtac cctgaaaaaa gaaaagaaat 120  
 aaattggaat agagggttagg attgatttta taagagtgcac tcttccccca naagatatgt 180  
 gtctctgttt ccactttgct agtttctctc cgtacttata gattattgng tcccacaact 240  
 gacacctcct tggatttgcc ccagtgggca tcccccaagta aacaaaaggg atggacagca 300  
 ggctacaatt caagtaattg gctgcattnt gcttccacga ctccgacata ccaatngatc 360  
 cgaatctgct ttttgcanna attattgaga cctgacacca attcaaaggt cctcaagatg 420  
 gctttgatca ccctgatggt ctncattgat 450

<210> 31191  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31191

ctaattcctt ttatccttnt tttcttttct tactaggggt naatgaacag gttatcctga 60  
 catgccttta ctctttatct tactggatga cattttctag aataagggat taaatgatag 120  
 agactatgaa gggaggaaag caaacaggaa ttatggtgca ttgggggtgg aatgaaagtg 180  
 gaaagaaaag gaagagaaat agtaacctta gaaagaaaaa ttcaataatc aattatttct 240  
 ttgcgaagtt actttttttt caatcaaac taaaactttt ctcttctccc cactttttgt 300  
 caccacacca aatgaccata aatgattgaa acttaatgga gttactcttc aatgggctta 360  
 tatgatgatc tattttttga tgtattgtca tactaattga tagctttat 409



<210> 31192  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 31192

caacgagccc ctggacaagt tgcgagttag cgtagcatca cagcttcttg accctgatta 60  
 cacttgctag tttgagacct gcaatgagtg cctcatactc ggctaatta tctaaggctt 120  
 agaagttaag ctagaggggt cactctagag taacatcatt aaggccttcg aggatgattc 180  
 gtaccccgca tcctttcatg ttggacgcac tgtcaatgta gaggctccac cagtctaggg 240  
 tggatatggtc gttccagaaa atctgcatga actggtctca tgggctgtaa ggtcatactg 300  
 agatccactc tagagtctac tgacatgcaa catctct 337

<210> 31193  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31193

tgacaatgct gttaaaatac atatntcacg agataatttg atgcctcagt ctgtttcact 60  
 tttgcgtgta aggatccctt gttcaaaagg atgggagctt ctagaatggc ttcgtttgcc 120  
 gtagatggta aggtctgcta tctatatnct tctgtcacta aatgcttgct attgctattt 180  
 tatgaccctt atttctttgg tgcattgacat atatngaact tttattaatc attagtcatt 240  
 tgcattatag aggtagttgt ttctagaacg gattcctatt cttgtaacaa gcataatttc 300  
 attatccctg tgctttacac tagtgacatt tagtcattta atatttatct caacttaatt 360  
 cttgaaat 368

<210> 31194  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31194

gtgtctttga nttcagcacn tgcganngag ccgggcccgg gancncanc gtcgaccngc 60

ngcangcaag tttattttta ctttacacag acnaagcgaa naggnccggga cagaacacac 120  
 cccancaanc gnaggaanca aagcagagaa agannncaaa acgcngacca accaaaccgg 180  
 agcaacaaag acancccgaa ncatcatata gaaaacaaga cccaccaccc gccaatgac 240  
 gaaacacaat aaagcatgaa aaccatccag acttatggct ttaacgctcc ccatttgact 300  
 aacagtctaa tgagatgtag tagcccaatg aagacaacca acatccacat accatttctga 360  
 tgtaagctcc attggagctt gcaagcctac gatcttcttc atcaatggat tcctttgctt 420  
 cttgcaacat gaatggctgc agaatggaga aggaagagag agaggacacg ccacttcaat 480  
 gacaacacta gtctagaaca tgctcaccac catatgaaag cg 522

<210> 31195  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31195

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtgg 60  
 acctggagat atgtcgcggn ggctcaggaga ccttgnngac gtcaagtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aaacagggca gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 300  
 cctctggtaa tcgattacca aggggtgggta atcgatta 338

<210> 31196  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31196

agcttatgtt gtatattatt gatgncaaac aaagaagtaa aaacagtga ggtatgatgg 60  
 gtcaaaccag ttgcgaaatc ttcaaactca tggggatagg catcccaagt gatatgctgt 120  
 aaagcaccac aaaaaatggg aactatatta ggacttcaa aagaaatgct atgctggctt 180  
 ctattaaaca tggaattgaa ctcaacggga ttagtcttcc accctacaag gaaaggaaac 240

cacccttcga atttgggctt aaggcctaac tcanaccggc tnttaaggta aggactaata 300  
aagccttana aggactccat tagagcatct ctaatgggtg taatttaagc aacctattnt 360  
gagttgttta cattactggt aattgtccca acaatgtcac atcanattta agtaattcat 420  
atata 425

<210> 31197  
<211> 302  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31197

tagcccaaga ggggatggac cttntcaggt cttggagagg atcaataata atgcctatag 60  
gttggacctc ccaagagagt atggagtcag caccactttt aatatttctg atttaattcc 120  
ttttgcaggt ggagctgata tagaagagga agaaccaata gatttgaggt caaatcctct 180  
tcaaggggga ggggatgatg caatcctccc taggaaagga ccagttacca gagccatgag 240  
caagaggctc caagaggatt gggctagagt tgataaagaa ggccttangg ttctcatgaa 300  
cc 302

<210> 31198  
<211> 411  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31198

ttagcttttc ntttcccttg anacacnnga gggacccgag gtcattatga atgacaaatt 60  
ccttgtgata aaggtagtgt tgccatgttt tcacagccca tattaatgca tacaactcct 120  
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180  
gatggccttc ttgcatcaac acagcctcag tccccacatt cgaagcatca cactcaatnt 240  
caaaagattg ttgacagtca gacaacgcaa gtatggaggc attagatagc tntttcttaa 300  
gaacattgaa agcatcttct tgattctctc ccatttcgaa accaacatta tgctagagca 360  
cgtcattgac aggtgctggc aatgtgctaa aatccttcac atatcatcta t 411

<210> 31199

<211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31199

ttagcttgtg atctcacacg aaccttattg actggggttc ttcgaagctt aacctanaag 60  
 aagggttaana gaagcttaac ctcatcttct catgaactgc aatttcgagt cgggaagggt 120  
 cgcgcgggcc gggaagtcaa cctcgggttg tagaagaaca agcttaagga agtcaacctc 180  
 ggggtttaga agaacaacct caggttcaaa agagtgaaca acctangggc ttgcttcana 240  
 tgcgaaatga gcaacaaggt taggggttcag aacagtgaac tcaaattgga aagcaattan 300  
 ggttttttga actaaaattt ttttttttaa tttgatttac gacgggtttt taataataaa 360  
 ctggcataaaa tttataacac anaacattct aaggggtgggt tcaataaccc gcttagaatg 420  
 tacgtcgtga attccaantt tcagtattat a 451

<210> 31200  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31200

tttctcttgt acttctnct tgctacaatt gcaattgcc a gtgtttaagg ttgaccaca 60  
 tttcangcac atgcctttgg acccaagacc acatactgaa ttcattgtaa tctcaagatg 120  
 caccctggcc cttatgttct ttgaaatgtc aatttggtc ttgtgtggag gaaaatataa 180  
 ttgatcatcc atgtcaataa gtgcacgtc gtcggcatcc ttaccactgt nttcagaggt 240  
 tgaaagttgt cttcccaaaa aataacaccc atatcaatag tctcttggtc ttcaatgcgg 300  
 tcatcagtga gtaaaagtga gaactcagag aatatgc 337

<210> 31201  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31201

tcaacagacc tccaancnag aatggagagg gnnaccacta ctggacaacc cgaatgcaaa 60

gttttatcga ggcaatagat ctaaatatct gngaagccat aganatangg ctttatatac 120  
ccaccacagc agaaagagtt tcaatagatg gtagttcatc aagtgaagc ataaccatag 180  
aacaacctac agatagatgg tctgaagagg atagaacacg agtacaatac aacctataag 240  
ccaagaacat aataacatct gccctatgaa tggatgaata gttcacaagt tcaaattgca 300  
agagtgctaa agacatgtgg gacactcctt cgataacaca tgagagaact acagatgtta 360  
aaagatctac gatacatgca ctaactca 388

<210> 31202  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 31202

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tgtgcgaact atgtacgcaa caataaatgt gaaattggag gcgatagtgc aagagaatga 120  
gaaaatgctg tggaatgcag agtctgagag agtgcttcca actacatatg acacaagcac 180  
agccagaggg cgatgactac 200

<210> 31203  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 31203

ctatacttta aatctttaat tcaggttacc aatgggtgac aaattaaaaa atcttgaata 60  
attctaaact attgatatta aaaaatatatt attggggaac taaatttgct agtaaattca 120  
catgaaattt tatcctaatt ttctaccac attattataa tattaataaa ttttacctac 180  
caatacatgt ccacaagaaa atcgtaagta ttttctggca ttatataccc tatagaaccg 240  
caagtatttc ctattgattt ctttcaa 267

<210> 31204  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 31204

ctaaccttct agcgtacccg ctattggtgc tcagaaaatc ccaaattttt atttctctta 60  
 ttactagcta ttttgaattc tttagttcct gaatgtacaa ctttcaaatt gttgctcgtt 120  
 cccgtatatg tttcttgcaa aaaataaaat taatctgaaa caattcacgc tgaattgtta 180  
 tcgttattat tactcatacc ataaggaata acagctaacc aagtaattta aaatgtaact 240  
 cttaaattat gaggtatttt tttaattaca attttacttc aatatctaatt attgttaact 300  
 tacttacgtc gttgtttaca tataaatatc aatatatagg tgatctactg ataataataa 360  
 gtactagcta atcacaaatt atgataccta tcattttaga ttataactca attctataaa 420  
 tattaataaa cttataataa gacaatcctt aacatgtgct gc 462

<210> 31205  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31205

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 nncaagggac cttcggcaag cagccngtta tttcaagggt tttccctgga ttaagagcgt 120  
 tgataggcct ttgagccttg gttccctttc cttgttttga agctcactac cagccttaaa 180  
 tgaaaaccct gatattacca tatccctacg gaattttgga actttggaat tgtttgggaa 240  
 taagtggggg ggggttttgg ttcatgggac aacttggttt cgtggctatg cttcataagt 300  
 attttgcccc tacttgatga cattgcatat ggctaaatgg tggacttctg aatgaaatgt 360  
 gttctcaacg ctaagagcaa aaaaacaaat cgaaaaaaaa ttctaaaaaa aaaaaaaaaa 420  
 agcataaagt gatgaataaa cttaacgccc agaatagaaa cttggcttat ctctg 475

<210> 31206  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31206

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 tggatatgca gcggaagata aaggagaaaa gctgatagga ggcaccatcc actaggggaat 120

aagccatgga aaaaagagct tcaccaccaa gagagtgtct tggataagaa gattagagag 180  
gaagcttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tcctaccnc 240  
caagggcatt ggatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccta 300  
nggttctcat gagcettang gcagatttcg ggcccatggg ctaagtatga gccacttat 360  
ctttgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420  
tgtagatagg gtaccctaga aatat 445

<210> 31207  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31207

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tcaagcttat aatatatga agacgcctac aattaaacat cggaagctct cgagaaattc 120  
gaatggcat aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180  
gaaatcgaac aacgaaaact ctcgagacat tcatatggtc ataacttttc ctcgatgtc 240  
cgattcagac gtatcacata tagagacgct cgtanatgca catcggaagc tcttgatgaaa 300  
ttacatggtc ataactttta cacggatgtc cgattcaggc gca 343

<210> 31208  
<211> 508  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31208

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agcgcgcaaca agcgatctac gcgtgtatca gaatcatgct atgtgctcgc gaatgggtccc 120  
cgatgtccct tcgcaacttg agttcattat tgctacccca tagagctccg cgaaatgaga 180  
agcggccata cttttacttg cgagccctct tgggctgttg atcaagggct gttgcggtaa 240  
gtgcattctc ttaccggaac ccggggcact cattccgaac gtgtgtaaca tccaaagtga 300  
acttctccgt ggcgagttat gcctttccta actcgatttt gagagcttgg acttntctcg 360

gatattcccg tgctataaaa atctcttcga tgacgacttt taacttggcg agccaatcta 420  
aacctcgtat gcgaactttc agccattcgt ggatgatgca agctccattg gagcttgtag 480  
gactangatc ttcttcataa tggattcg 508

<210> 31209  
<211> 413  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31209

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acagggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg 120  
aagatgtcca gattgcaact attggctaca aaattcgaaa atctgaagat gaaggaggaa 180  
gaatgtattc atgacttcca catgaacatt cttgaaattg ccaatgcttg cactgccttg 240  
ggagaaaagga tgacagacga aaagctgggtg agaaagatcc tcagatcctt gcctaagaga 300  
tttgacatga aagtactgac aatagaggag gcccaagaca tttgccacat gagagtagat 360  
gaactcattg gttccttcaa actttgagct aggactctcg atagggctga aag 413

<210> 31210  
<211> 327  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31210

tcatgattgc ctaagtgtgg accctcaagt gcaatccttt attcttctct ttnttcggag 60  
cccatgaat gtcattgcct agecgtgttc atgtgtcctc caccttccag cttggtgcta 120  
tatttcatga ttgcctaagt gcggaccctc aagtgcaatc ctccattctc ccccttcttt 180  
ggagcccat gaatgttatt tcctagcggg gttcatgtgt cctccacctt cgaatttggt 240  
gctatatttc atgattgcct aagtgcggac cctcaaggca atactccatt ctcacacttt 300  
cttgagccc catgaatgac attgcct 327

<210> 31211  
<211> 426



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31211

agcttttata tatatgttca tagtgtatgc taactttgtc tcctttcttta attccaatcc 60  
ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120  
atatttaagt tttatagtta ttccaaccaa ctgggggaaat ttagattcat catanataga 180  
ttagtaggct aattttgcat atctgacctt gcagagtata taacagaatt tgggccgatg 240  
tacttataca tganaaatgg gtaggaagaa actaaagata tggaaagcaa catcacctga 300  
taaaggatatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgccatt 360  
caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacctgt attaacatcc 420  
cccatg 426

<210> 31212  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31212

agctttcttac aacatcttga gggctaagta tatggaattc acctttgttt gttctgtgct 60  
gagatggntg atgaaaagtt gtctgatgaa attttacatc ttaattaaac cttaacaatt 120  
ttctcaccca acaaaacttt gtatgcctc cataaataat tttatgtgct gatccttact 180  
ctcgatcggg tgctattgga ggattttagt aatttaatta tatggcataa taaattaaaa 240  
tgactataca tntgtttact tactcacaac tctgtatgga ttcaaagggtg aattttacta 300  
tataattaaa taacttggaa aaattacaga aggaaacatt cgaccacgta atttcatata 360  
ataatcttca ccaaaatfff gtacacgttg atattgtcat tgcactaatt catttataaa 420  
caatcaaatt 429

<210> 31213  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 31213

aaatctgact tgccaagggtt ggggttggct ctctgctgac acatacagac tttgcgttca 60  
 tgcacacctg gacaatgaca cttgaactat ctgcaatatt acataacctc tcaactcaca 120  
 caaatcacc cagcaacaata tgactttcag cagcagatacaa cctgatggag aatacctaac 180  
 tcaatgtcag ccttacacac acacagctgt cttcttcaaa tgtgtggcca acaacataca 240  
 tctcacatca c 251

<210> 31214  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31214

tgccccaatg attgcatact gtacaggcat gaattttatg taatgtccaa atgccctatc 60  
 tatgggactt cacgggtacga agtgaacgat gaagaacaca gtagttctga tgaaaactcc 120  
 aacaagggcc ccccaacaaa ggttttgtgg tatcttccaa tcattccaag gtttaagcgt 180  
 ccttttgcta acgaggacga cgcanaanac cttacatggc atgcaaattg aaggatttct 240  
 gatggaatgg tccgtcatcc ggctgattgc tcccagtga agaagattga tggtttgtat 300  
 ccggatttcg ggaatgagcc aagaaatctt agacttggac tagccagtga tggaattgaa 360  
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 31215  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31215

ccccgcctta ctttgtgang ctttgaacct tgggaaccag ctcgaccgg gagtcttaga 60  
 gcacctgcag ttagtcacct ttctaacgtt atgccagaca gaacaacatt ttggcattgn 120  
 cgccagtcca agaagaacta atcttccacg cccatgaccc caaggggtgg acgagttgcc 180  
 cgagtgtacg ctgaaaaata cgctagaaga aaggtgatca acttcttaca tcaagagcaa 240  
 caatgtggat ggaccgattt gctcttactt tgaacgggat tcaagaactt cctcgattgc 300  
 tagccaaggc ttaggcaatg gtggacacct acttcgccct cgatgagatg cacagacttc 360

tccggtattg gcagcatatg atagacttaa tgggccatan tattagaaac cactacgaag 420  
 tttgtattgg cactcagatc ttgactaatt ataactttct tgaaaaatga gttatccatg 480

<210> 31216  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31216

ctcagctaata gagcagatat aattcaaagtc atttaaagtc tttaaanaca gattatgtaa 60  
 aaaaaaattg atttacagtc ctttaagcaaa attcttaagtc agagtaaaca gaattatgga 120  
 aaaacgaaaa aaccaatggc atgaaatgct ttggaatata actctagatt gatcacactc 180  
 ttgtcccttc tcaactcccc anatttccat tttcatccca gacattaacg tggtctggat 240  
 tcatgacctt caacagcgta caccttaaat atgtaactta cttgttcttc tttccatctt 300  
 tttctgcctc ttgtttgaat tgcattgtact gttcaagcaa tttcatcgta atcctctact 360  
 tctgctcgtc ttccaacaac ctcatctgct caggttcatg gttttcctct gagcttgctt 420  
 tcttgatctg caccaagcca tcaatacata aaa 453

<210> 31217  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31217

cgctgtttt aagctagtan nttcctttga tagtgacagc ggatatgacc acgttggaag 60  
 acgattccat taaaagacta ctaactaaaa agatcatgtg gaccacatta gtagaacagg 120  
 ggggtggcag gtgaaaacat atgcatgcct tactatttaa agtttacaat atggaatata 180  
 taattatgtc aataaatatc tgaaatacga gctactatgc ttatttattt atctgaagat 240  
 acctcgataa atttctaact ctaactgcaa gaggttattt ttaactcgcg atacaatgag 300  
 tttcaattga cccaattga gacactacac acttggacat ccacaattct caaagatctt 360  
 ctctaagact ggaaagaaag cctctacttg gtgctgtatt atcaccacat gaca 414

<210> 31218  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31218

acaaccgaca cagcaagcgc anctgcagaa cacatttaat ttnannnnta nnnnnnnnaa 60  
 gccgggggtg tgactccttg nannacgcga catatanaaa ctcaagctnt acnncggatn 120  
 nnnacagcac aaatcaaaca cacatactat atattccacc gcacacatac ccactagaga 180  
 aaaaaaccag atgaggacaa aactctatcc actcacacga aagaaacaat aacacaagac 240  
 aaaatcgcac acatcntata gaactaacta caagatatat cgccacacaa cggttatcaa 300  
 atattaaaag aaaaaaatga acataagata atcaaagaat ttacngaaag aaccaaaaac 360  
 gaaagagaac aatagccctt ccaaaaaagc caacaagaac tgcaatcaac ttacatattt 420  
 tctgcctaag aaaaaaactt aaacaatttc tcattcttta ttttcataca ctactaaata 480  
 tctctaactc ttttaacctt caaagtgtca tacagggtcac tgcccacctc aatagaaaga 540  
 gacaagaatg actacgcgta gcag 564

<210> 31219  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 31219

agcttttgtt aatatattcg ttctgaactt atcttggaat taattgtttc ttaaaaagga 60  
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120  
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattatga tcttttactt 180  
 ctatttcttt ttttccaaat tataaaaaatt gaaggacaca caatttaaaa aattcaactt 240  
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300  
 aatttagtta aatgcattca aaatatTTTT tatattatta ttaaatttta aattgagata 360  
 ttaattaaaa cttgtgactt cttataatta ttacttta 398

<210> 31220  
 <211> 321  
 <212> DNA

<213> Glycine max

<400> 31220

atgatgtgat cctgcctaag agcggatcgc ttgatacatg ctacaaagaa ttggatgacg 60  
ccacttccca agatggaaga gaaagtatgg tagacgccac aatgattaac cttataagtc 120  
tgagattggg tcaacaagaa acccatagag aagctctcac caaattttat gaaaatgccc 180  
atacttatag tgtatctgaa caaaacgata aaatagacat gggctcttcta aacagtttgt 240  
gccactatta caatttataa aaattattta tataaatata acatattggg atggccttca 300  
aataatctgg acttcaacac a 321

<210> 31221

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31221

tctagcttgt tngtgaagct tctatggagg ctggatcttt gagcttcaat gaggtagctt 60  
ccttgagaag ctttcttaag aagttagaac ttagctacac acacccctct aataactaag 120  
ctcacttcct taagaagttt ccctgagaaa ctctcttgag aagcttcctt gagaagattc 180  
ctagagaagc tagaccttat ctacacacac ccctctaata gctaagctca cctcattgag 240  
atgagaagct agagccttag ctacacacat ccctacaat agctaaactc accccattcc 300  
aaaatacatg aaaatacaaa aaagtcctta ctacanagac tagtcaaaat atcttgaaat 360  
acaaggctaa aaccctatac tactagaatg gccaatatat g 401

<210> 31222

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31222

cttagagggc aaaattgaga aatgtgcac tactatatgt tttttatgnc gggaggattg 60  
agaaaaaaga tataggaata ggatcacaat gtatttgagg ccacattaag taaaataaat 120  
gtacactcat tatatgtttt tctatgttgc catgcacatg tgaatatctg tgattttcat 180

tcaaaataac tcactgacac tcatagtggc aatttagatg ctattaatcg gtaaaattaa 240  
 tttatctata gtaaattattg tctagaagac tgagtttgac ttgaatctgt aggattgaaa 300  
 cagattatct cctcacctga agagaccatg gatgatagtc atcaacaaaa agattctatg 360  
 gttggacctg aagataatac tcttcaacac gccaatagaa atactcatta tgaggagcaa 420  
 gcagaagcaa acaataatta catcaca 447

<210> 31223  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31223

acaaaaagaa gtggatcaga tgggtgtataa atcatgtagc gggcaccttc ctacaaggaa 60  
 aacgccctat atattaaaaa caccgtaaaa attagtgtcc atatttctac tgaagggtcgc 120  
 aacaagccaa aggcttcttt aacaagcatc taaattttta atattggatg aaaacaattc 180  
 aacaaaaaat gcatctaata aataaagcga gcttcttcat ggtgtggtgt aaacacaata 240  
 tggatgtgag aaagtaattt cgatataaga aaataacgat aatgaattca gtatccagga 300  
 ttcttncagt agacttgatt aatagaaaag aataacaaga aatgagaga agcggttcata 360  
 tggtaacaca ngcagggggac acagtaac 388

<210> 31224  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31224

tctctagcta ctcttcacct totatcacca tttctatntt tgactatata gaaggctntt 60  
 gttggttact ttgttttcca caagaaagac ttttaagtaca cattctttgt cattttataa 120  
 tcaccaaccc aacaattggg taacttagat ggctngtttt ttcattctgtc aatctatcct 180  
 ttcgaaatat tgacgactgt gtttacagtg tgtttaaaac aataattaag aaaccttgac 240  
 gctgaaattc tagtattaaa aatttaataca ttttgaagat aactggttta gtgtttatag 300  
 gtgaggggtct tccatatgtg gaaattacat tgagtttcaa ctaatatgag agacagggcat 360

gcatgcatgc aatccattaa aggggaatatg aatatcggaa taaaacttat ctccctatta 420  
 ttaanntatt ttcanaataa ttataatcaa cacat 455

<210> 31225  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31225

cgccgaggcc atgaagcatt gtgacttccg tcgantccag ctccgacccg gggattctct 60  
 agaggcgaac tgcaagcctg ccagcctaata ctcaaagtgt taggttaaca agccaatccc 120  
 taagacttga actaatatat gccgggctaa ccagagaatt caacctgagc ctgcctccct 180  
 tggaaccaa aacaaggtaa caaaggcctg agcaacactt ctacccccca cattcttcca 240  
 attccattag gaatgaagaa aaaaaaattg aggttcgggg ttgcctccgg gaaacaattc 300  
 tttcacggag acaatagttg gtgcctaagg gggcatataa gacataaaga acacatcatt 360  
 cctctttctc ttcttaagta gaaacttcat gaagtcatgc atcatgcaat gacctccaac 420  
 cattgcctag aagtgtcgtg agcaagcata aaacgattaa aatgatcact tctcaagcat 480  
 ttcctgacat aaatgtgg 498

<210> 31226  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31226

ccaaccttca tacttgaatc ttgtgatgga agccctctct tgaaatgact ttatgaggg 60  
 ttaaaccaga gcaaaaattg cttatggaaa tcatccctat gtatactctc aaatcgtgtt 120  
 ggttatgcac gagctcgaat tacaagatct atgagtcctc gttgggcagc atgaggagct 180  
 gtaactgca gctcatgcac ggctttgctg gctcgtgtcg ttagtcctga atgagaaccc 240  
 cagaatatan ctgcttatga caatataaac taactggtga tgacaccccc tgtcttcttc 300  
 ccctactgat aacatcataa tata 324

<210> 31227

<211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31227

agctttataa ggcgagggttt gggatactaa ggtcaagtgt tcgcgatatg cgaagatgat 60  
 gttccgagta ctttggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120  
 cgagtggaaag aacgccccgg catttacgca acgagcataa tgtaaaccctt tacggtttta 180  
 aaagctctat agttgggcct aggctttaga gtttntcctt tgttaaggct ttgtgtcttt 240  
 tgtttttgaa ttataatac aaggatcttt cttcatctgt tcctatgtct ctaccattc 300  
 tcattcattt gcatgtntac ttctttntct gaaacggcag atccgatgac gagntccccg 360  
 aaggctactaa tacctgggac ccgcctatcg acttcgagca agaaatgaat canacggaag 420  
 atgaagg 427

<210> 31228  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <400> 31228

tctttatttg aacgactgat atttgaattt aaggaaaaaa aaatagaagg gattaataag 60  
 aatattcctt caagggcact atcgtcgcag aaaaggagca catgtaggta tttggattat 120  
 cttttcctgt ctaaccagag tgcgctaagt tgcaccactt ttagttgaga taacgatcat 180  
 ttcaagactc ggcgttaatc tcatactgaa tccttcattg aaatatataa aagacgtctc 240  
 atgtccagaa tttttaggaa tgaagaatat taagtgaaaa tgatcaaaca tctctgaata 300  
 gaaactctat taaaatcatt ggacgatata ctatgcactt aagcacttca 350

<210> 31229  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31229

tttgttccct tatntttcta tgcaaaagnt tctggtacat aactactaca attttgctgg 60



catggagcgg tgacctggtg atatgtgctg cttttgtcat acaatggcat tgttgatgac 120  
acatttgcac tgtaggctgt aacaatgtgc aagcgcatgt gttctcctct ttacataatc 180  
tggcattctt gtatgtttgc tgattgatga aaaccactta tacaacaaat gtggatggag 240  
tggatacata tatagatgta tgtcctacct ttgtttagta ttgctctagc aaatctc 297

<210> 31230  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 31230

cactgccact gctgaatctt gattaccttg tgccacttgc atgaatgtat ttctatacct 60  
ataaaattat accttattaa aatggaaaaa ctttaatcac tatttccttc ttctaattt 120  
tcttgagtaa agtatcaaag tagttcttta cttttggagg cgttgtcaat ttgaattctg 180  
aaacttaaaa aatgtcaaaa tgatcatcga ctctacattc cgtctgtcac attagcttct 240  
gccgttagta gtctcttaac actgttaata aatgtatgat gtggcacgtg aacgcatacc 300  
tggaactttt agatctaa 318

<210> 31231  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31231

agctnttcat attatactgc tgatcttttag ccaacacata attactagat ttctaacaat 60  
atacatcaaa tagttaacta gattttgtta tactttcttt ctggtggcag atgtgtgcta 120  
agacttgggg caagtgcctt ctctacctta aaatttattt tggaatatgc attattggtc 180  
cactaaatat tnttaatttc ccactaatca ataagttata taaacatgga aaaaaataa 240  
aattttgtta cctgtaaaact acaagataaa aaattatatt attttgaacc ccagacctaa 300  
gaaacccctt tactctnttg totattctgc ttttggtagt tgagagtcac tgccatgca 360  
tanaatttta ataagaaatc agttgtagat agtaacttct tgatttccnc tgtanaatat 420  
ttcacatt 428

<210> 31232  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31232

ttagtcacat taatcatagg tgacaacggt aacatcttcc cttagattcg acgaccacag 60  
 acgacaatga catccccccg gaaatccggt ggtgacaacg acattgccac ggagatctat 120  
 tgacaatgac aacttctatg gcttaagcaa ctttaacatc acattgttca tccacagntt 180  
 aatgggtaag tttgagccat cgtggagggtg atacatgaag acatgggttga tattgtgtgg 240  
 aacatcctga aattttctta t 261

<210> 31233  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 31233

cttgattact ttaaagttta ttgacccct ccaaaagtat attttatggg gactgaattt 60  
 tgataatttc cacaaacttc atttatgcta tcaactaaat ttcctcatt ggatcattct 120  
 aattttaact acacaaatga taaaatattg aagttcctgt tgttcagtaa tattttaaag 180  
 ggaaagttta ataataatta aatacattag aaagtattta aatacgcacg tgatgagtag 240  
 cttatattaa caatttttat ataaaagatt atattatctt ccggctatgt atgtcagaac 300  
 actcaattag ataacaaaca caacaatg 328

<210> 31234  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31234

tgtgcagatc gaatcactcc cgcattttat ctctatcatg tattctttct ttctttaccc 60  
 actcctcacg tttggttttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120  
 ctatcgcacc agatccaaat ctacaacgat ggggtgatcaa gaggagacac acgaacatat 180  
 gaaagccgac atgtcggctt tgaaagaaca gatggcttcc atgatggacg ccatgttatg 240

aatgaggcag ctcatggaga ataatgtggc caccgctgcc gctgtcagtt cggctgccga 300  
 agcagaccca actctcttgg gcactgcgca ccactctccc tcaaacatag taggacggtg 360  
 aagggacaca ctgtggcatg atggcaaccc tcccctanga tacaaccgag cggcttacct 420  
 ttatggattg cgcgccaact actcacc 447

<210> 31235  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31235

cagggtttgct agcttgtant gatttcgctc caattgaagg gttcctctca gtgtgggggtt 60  
 tcaacggcgg tttgaggcaa ccaccaatgg ttgtgggtgg tggagaataa gcttggggaca 120  
 ttggggaagg gttttggaaa aaagaaggag aaaggaatgg ttgctttcca aggctacacg 180  
 aaaaataaga cttgaaacac tcaagtgttt ctgctatcgg gaaaagaagc ttttctcaca 240  
 caccacaaga catatcgcag atcgcaacgg ttagagccgt ggaaatatgc tctatgaacc 300  
 tccagaccaa atttcaataa gatccaacgg ttaacgaatg catgacggtg attt 354

<210> 31236  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 31236

ccttatcgac gattaacaac agcttttaat gaaaggcagg agaatgaatg cccccgaaa 60  
 ccattaactg gaaacgaagt tcatgattgg gtaaaccgaca ttgtaaccgt gtttgggaag 120  
 tcccatttga agacatcatc tcgcaacaac atgtggaaga aacgcttaat attctttgat 180  
 cttccatact ggtctgatct acatgtgcgt cattgtctag atgttatgca tgtggagaaa 240  
 tatgtgtgtg atacgttaat tggctctctt cttaacatta aacggaatac aaatgat 297

<210> 31237  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31237

agcttttgat tccttcaaac aacaataact ttttactcgg atgtctgatt gacacctgta 60  
 atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120  
 tttctacttg tatgttcgat tgactctggt aatatatcga aacgctcgaa attgaagacc 180  
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcccg 240  
 tactatatcg agacgctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300  
 acttttttcc tcggatgtct gattgagtcc cataatatat cgagacgctc ggacttgaat 360  
 gccttagctc tgagcaaatt caaatgacaa taaatnttta ctgggatgtc taag 414

<210> 31238  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31238

acacatagaa tactaagctt cggattcaag tccgagcgtc tcgatatatt acgttgantt 60  
 tgtctgacat ccgagtaaaa aagttattgt cgtttgaata tgctcagggc ttccgtaatc 120  
 aatttcgagc gtctcaatat attacgggac tcagtcagac atccgagtaa aaagttattg 180  
 tcgttggaat ttgtcaaag ctgtcgcatt caagtccgag cgtctcgata tattacggga 240  
 ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgtcata gctaacgcat 300  
 tcaagtccga gcgtctcgat atattatggg actcaatcag tcatccgagt aaaaaagcca 360  
 ttgtcgtctg aatttgetca tagcttcggc attcaagtcc gagcgtctcg atatattacg 420  
 ggactcaatc 430

<210> 31239  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 31239

agcttattaa aaactcaagg tctgcccttg gtactcatat ctccaaaacc caaggtccac 60  
 ccttagtaca tattcttgct aaaccaagg ttcgcccttg gtacatacct ctacagaact 120

cgagggtaccc cctcagtcg cttacatgta gcaactacaa tgaccatcgt caaggggtcca 180  
 agttcaacca aacgaactac caccacctta ttttgcaaga cttttaatta ggtcaaaacc 240  
 acacctactc ctcataacca tcagagatct aaatgtagat caactctaata ttgttattgc 300  
 gatttgatta cttttttgtt tatgggtgcc tatgtacgaa ttcgagtga gaatatgttc 360  
 aattcacttg cattgtcata aaaccacat gttaatatg gattataatg ac 412

<210> 31240  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 31240

atctgatcat catgctttga taaatgcaaa aaatttgggg caaatgatga aggtgagaat 60  
 gatggaaaaa cccatgctgt gactgccatt cttatacagc ccagtttccc accaacccaa 120  
 caatgtcatt actcagccaa tatcaaacct tctccttacc caacacccaa ttatccacaa 180  
 aggccatccc taaatcaacc acatagccta tctaccgcat ttccaatgac gaacaccacc 240  
 tttagcacat accaaaacac caaccaagat atgaattttg cagcgaatca gccctgagaa 300  
 ttcaccccaa ttcgggagtc ctatgctgac ttgctaccat atctacttga taattcaat 359

<210> 31241  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31241

tgttgcaagc ttttaaaatt gttgtctttc accttctcgc taagccaatc tgggtggcata 60  
 gagagcttcc actaagcgca acatcatag gctaagtgcg aggaagactc tggaagaaga 120  
 tgagccatac aggttcgcta agcgtaccgc ttcattctcac taagcacacc gcttttagttc 180  
 atttgctaag tgagaaaggc acgcgctaag ccaaaattca ctaatgtgcg ctaagcgcac 240  
 gagcacgaac aaggccacct atntaagcct tanatcagat tttagagagg gagtttggac 300  
 tgggattcag agctttgcat gtctagagat tctacagaga gaaagggtcca agtgctagag 360  
 agtnttgaga gattttgctg tgtgaagatc tgcagagact atagcttgaa caagagtc 418

<210> 31242  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 31242

tgatagagtt atcatcacat gacattttat tggcactgaa taagttgctt tcgaagcaac 60  
 atgagattgt aacagaaaca ctcggtgaagc tgtcaactaa gttgtctatg ggtcaaccta 120  
 cacactcttc tattttgcag gttacagggt ataccatctg ggggtgaggct catgaaacaa 180  
 gccaatgtat tcccactgaa gaaaacactc aataaattca ttatatggga aatcaacagc 240  
 gacaagggtg tactcaagga ggattttcag gcctccagca gggtccttat aatcaacaag 300  
 gacagtggag gacacaccct ggcaatcagt tcaataaaga ccagagtggg ctttcaaaca 360  
 ggccaatcca acaaggacat aacatatctc agaggactac taagctggag gagatcttga 420  
 tctcagttat gtaggtaaca atatcaaata ata 453

<210> 31243  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31243

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 aatgcgtaac cattattnta gttatcctaa gtatagcaag caagaagtca atcaactntg 120  
 tgtgggtttt gctaattgca tgtgttaccg tgcaactaat aaaacaaatc acaactcagt 180  
 gcgcattatt tcaaaagaaa gaaattaaca tctacatta atttaggtgc aatgtgcccc 240  
 tcaccttggg ttgttatgaa gatgcatgta tgccccacag gatgtggtaa accattatgc 300  
 tatagagttt aggtgttgca catctgcttc aaatgttctt tnttcaagta ttgatcccc 360

<210> 31244  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31244

tccatcanag gtgcagatga cgatgttagt ctctggatgc taccagactc ttgagtctga 60

cggatagcaa ccaagacatt ttcgcagtct cggtcggaag acgctgacat ctctgagaaa 120  
 ggtgcagatg atgacgtttag tcaactgcatg ctatcggact cttgattctg acggataaca 180  
 aatgagactt tttcgcagtc tcggccggaa gacgctgaca tctctgggaa aggtgcagat 240  
 gatgacatta gtcactgcat gctactagac ttttgagtct gacggatagc aaacgagact 300  
 ttnttgcagt ctccggccgga agacgctgac atctccagga aaggtgtaga tgacgatgct 360  
 agtctctgcg tgtcaatggg ctcgcttgcc tctagctgac aaaaggtacg gataaccata 420  
 aggtatctcc gcatatcat 439

<210> 31245  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31245

agcttgtttg tggggcttct atgaaggctg gatctttgag cttcaatgag gtcctttaat 60  
 ggtgattttc caccatggag atgcagcgaa agacaaagaa gaagaggtga gaagaggcgc 120  
 catccactat ggaacaagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaaggg 240  
 gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtgtgtctca 300  
 taagactttt attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactan 360  
 gtagcttcct tgagaagctn tottaagaaa acttccttga 400

<210> 31246  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31246

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 ccaaagttgt tggatgactt ctcaactaac tacttgcca cttgaccac ctggatttca 120  
 aagtttttca gggctgattc agtactctta tgggtggaca tggccacttg cataaactgg 180  
 gctattgtct cctccagttt ggtggctctc tgaaaaatat ttggcccttg ttgaggtggc 240

ctgttgaag gtccacctg gtccttattg agttgattgc caaggtgtga tcttcattgc 300  
ccttgctgat tatagggacc ttgatggaac cccgaanatc ctncttggtg tatccttgtc 360  
tcttgtgatt tcccatgtaa tgaactctct gagtgtgctc ttcaatggga atgcaatgac 420  
atgattcatg 430

<210> 31247  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31247

agcttgtttc atcatttatg cgagacatag accaacaatgc tagccatcat cagcaagtac 60  
caagaagaat taaatctagt cagcaccac gaacataaag tggcggacga gtatgcccga 120  
gtgtacgcgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcaaca 180  
atgtggatgg accggtttgc ttttactttg aacgagagtc aagaacttcc ctgattacta 240  
gccaaggcca aagcaatggc ggacacctac tccgccctg aggagatcca cggactcctc 300  
agctattgtc agcacatgat aaacttaatg gccatataa ttaggaactg ctagaagttt 360  
gtatttgcac tcagatcttg actagttata actttttgaa taacatgagt ntatcccacg 420  
tttttac 427

<210> 31248  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31248

tacacttcaa gcatacggtg tggcgtataa cttctctctc ggcaaagtga tatggaaagg 60  
ccttttgggtg ttaaatttat gaggttttct ttattgcctt ttttttggca aaaattgaag 120  
cttcgtgttg tttatgggtc gaacagatca agctgtaaat tattaactgt attagctttc 180  
ggtagtggtc tctcccaaat ggtttacaat tccatatttt ntacaatgct tgtctttgag 240  
gcccaaattc atttacattg gattctatct agactcatta atattttacg ggagaaatgc 300  
taccaacaca tgtaacattc tttatatcgg tcgatatttg ttggatattg ttcaacaatc 360



tt

362

<210> 31249  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 31249

gaagaagaag aagttctaga agatggttca aaaggtgtgg aaaaagggtat atcaagggtca 60  
taaaatgccca gtgaagggct tgcttttata gactcttcat ggctgggtcaa gaaaaccatt 120  
gaaagaagta taaccttgag aaaatctaaa gaaaaccatt ggaagaagta catctcttga 180  
tttttattca aaacttgtca ctggtaatcg aataccaaaa ccatggaatc caatacacia 240  
agctttttat gaaaagatat gactcttcac aatctaattt gaatttcaac gttcacatac 300  
actggtaatc gattaccaat atattggaat cgattacacc catttaaaaa 350

<210> 31250  
<211> 248  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31250

tcataataga tgactagaat cttctcatta tcccttcttt ccttgaagaa acatttggat 60  
gatttcttcc atctggattc attggntggt tctctacatc ttctgatct ttctgcagaa 120  
taatgacana tcctctctcg tagcttcttc atattcataa tcctcatcag aggaacntat 180  
cacactaact actttn gatg atgctttang caatgatttg gatgatgaag gtttcttggg 240  
cttatgga 248

<210> 31251  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31251

cgctatcttg ngacgcttct atgaaggcta catgctcgat cttcgagcaa gtcctttaag 60  
gggaattgcc ccctctggag agccgcgacc tactataaca aaaagggtgcg acaagggtccc 120

ttcccttagg cactccccgc gtataatgag gctgaccac aagattattc ttcgcttcta 180  
aagttcgaat aggtgcctcc ttggaagcaa agaaagctgg gttttattta ataggggggc 240  
accccgaaact acacggaata ctttcatgca caagagctac cttggactct gtgctataac 300  
agctgtctac cttccatgtg agcgcaagct ttacacgagc tgatatctat acactaggtc 360  
tcatccttag aagactttga taatagactt tgcttaagaa cataactn 408

<210> 31252  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31252

ntaactntta atctcagatt ctttggtttg actgagattc tttatttggt ttatgaaaag 60  
aattccctcc atataattca acgtttgaca cttttgattt gatttacttg agtttataaa 120  
aggctcatgc cacaaatttg tggcgctgctc taatcatgtc tgaacatgca aacatgatgc 180  
atatgaaatc ttaatatcc aatcttattt ttctttgcag atatatgatg tatgcattct 240  
atgattcttt ttacatctt aaacttgata cgtcctaagt attttggacc aatgtcaatt 300  
gtatatatct ttagcacttc tatgtgagat ccacaaatac gtttacttgt ggcatatatg 360  
acgtgcattc tttcatgaat 380

<210> 31253  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31253

tgttgcaagc tntttatgag acctactttt ggtgacttgt ttcaagagaa ggtattcttg 60  
gttacaaca ctaaacacaa gggaccaaca ttccttaagt tcattgcaag aagcaagatt 120  
tgcttcttgg ttgatcactg gacacaaaag accaacgtct tttgggttca ttgcaagaag 180  
tgggtataac ttcttggttg ttatcaatgg acacaaggga ccaacgttcc ttggggttca 240  
ttgcaagaag tgggaataac ttcttggttg taatcactga acacaaagga gggaagtctt 300  
ttgtgggttca ttgcttgtaa aggaaattta caagatagtg gaaatctcaa gcgggttgct 360

tggngactgg acgt

374

<210> 31254

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31254

ctattaaatt anatagacca gacttagact tattaattag ttgtatgagc cngataggcc 60

tatatatatg tatatatata tatacatata tatatatcta tatatatata tatatatata 120

tatatatact attttttggc ccaagaagac tctaatacggg gtgagattga ctctcctttt 180

cctttaactt gcctctcacg ttctactct ataaaatata aaatatttat cgtgaataat 240

acttttaaaa aggcatacac tccacgctcg actcttaaag aggtcacacc cgacccaaac 300

aagagtctct gataggctat angccagact cagccctca caaatcatcg tagactacgc 360

tcagggctct cacagtctgg cctgacctat tctcatccgc tattagaatg tgaattacac 420

acactaaaat acactacttt cacactacac ggacta 456

<210> 31255

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31255

agcttttctt ttgntgatt ttcatacaac aacctgtctg gtttggcgcc tggtagcggt 60

caattcagct acttcaatta cagctctttc ttgggaaacc ctgacctctg tggccctat 120

ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180

tcctcttctt ttaagctgct acttggtggt ggggttgctac tatgttccat tgcttttgct 240

tgggctgcaa tattcaaggc ccggctactg aagaaggcca gtggggctcg tgcattggaag 300

ttgactgctg tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360

ataatattat 370

<210> 31256

<211> 434

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31256

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gagatgttta aatagttatt aaataaaaa aatttaaatt tttatttctt ataaatgtgt 120  
gtgaaaatgt gtgtccgttt aatctaatat taaactaaag aactctaaa tttttataac 180  
atcatctaatt ttggttaatt aaataaagtg tgtgaattat tataagttnt ttatatttat 240  
ttttaattta tatgaataaa aataataata acattgtcac attaattctt acaactaata 300  
gaaatattaa ataagtctct tgaatattta ataaattctt aaatctaact attgatcatc 360  
attttaagtc ataaactata tgtaatatta tcattcaagt gatctttttt tgaaattgaa 420  
ctaattgtgat ttca 434

<210> 31257  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31257

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aatgatgttc agtgatgaca ctatgaagga atgggttatc ctgattgagc cagattcgac 120  
ccttgaacag tatcagcccg tgaccgagag tatagtcagg atggtcatta gggttatcac 180  
gaatggcttg agcaaggcgt tggaactccg agttagagtc gagggattgc ttgatgtcac 240  
tgangaagtc aagctgggga aactaaaga cgagcaagga agcttcagga gatggagctc 300  
gggaaagagc atcagcgatc acgttagtgg cgccagactt atactgaatg gagtattcgt 360  
aacctagtag ctttgaaaga taatagtgtt gctctggtgt ctgtatga 408

<210> 31258  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31258

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 cctgctctaa atcaccatta agaaagattg gtttcacatc catttggtgc aactcaaggt 120  
 caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180  
 atgtctgtgt aattgattca ttctttttta gtaaatecct tagcaatgag tcttgcccta 240  
 tatctttcaa tgttgccctaa tgaatccctt ttggtcttaa agacctattt actgccaatg 300  
 gcctttgccc cattangcaa ctctacaagg tttcaaactc cgttactctg catgaaattc 360  
 atctcatcct tcatagcatc ataccatana tntgactctt tacaactcat ggcttgctca 420  
 naagtttcgg gatcattttc aactgcaata tta 453

<210> 31259  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31259

agcttttgca gttgttcac cttctttataa gcttctgcaa gtgccaaata cgattcccca 60  
 agcaaaagaa caagcttcca caacttatga tccaacttgg atgttggaag ccattctcgg 120  
 atgtcacaaa cttcaataca gtcagcatct ccacaggcac aaacagaaac attaaaagat 180  
 gatggtctat cacgattttc attgaattga tccatcacct ccggttcagt gctctgaagc 240  
 tgacgcatcc atctcagaga cttaatggcc tgtgaaacat gatgtacggc agctaacttg 300  
 gatgagattg gatcagcaac tgtctgaacc acaggtgtgg aaactggaca tacttcacaa 360  
 gccanagagc tatcatcagg atacaagct 389

<210> 31260  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 31260

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 actatagttc acttagcatc acacttgta caaagtatta aaatgtcgca acatctttaa 120  
 tgtatctcag aatattgta agatcatatt gcaaggtatg aaagttgagt ctcacattga 180  
 aagtttgga tttaatgtag ggttttttag gccttcacct tcatttttcc aactacaatt 240

gatggccttt atggtgtagt tctggtaggg tottaataat tgggtattaga gcttcttcag 300  
 tgttggttaa tggtggcgct acggctacca tggtggaatg gcatcatggt tttttgtca 360  
 accaccatca ggaaattgtg aagggaggcc agttatggtg gcttctatta gacaatggca 420  
 tctttata 428

<210> 31261  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31261

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 tgaagcgcaa atocacttgt aattccaaag tgtcaaacct ttcaccaact gggtcggcaa 120  
 caatccgtgc ctacatccaa tccccaagca acctgcgggc cttgagattt cttttcaacc 180  
 ttgtaaaaat cttttaacaa gcaaagatcc acaagggatg taccctccct tgttctctnt 240  
 gaacctagtg gatgtaccct ccactagaac tgatccacaa gagatgtacc ctctcttggt 300  
 ctcatgcaac aacccaagta gatgtactct ctacttgtag cacanaggaa tgtaccctca 360  
 atgntgtaag acatagatct c 381

<210> 31262  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31262

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 ctttggttctt cgtttgaagt cttgagtcga ttgaagcatt taatgctttc ttcattgcaa 120  
 gttcatgatg aaggggctag tgtgctttgt acttcattag ggaagtcact tttttcatca 180  
 ttgcaggctc ataacaataa aatgcacctt ttgatgaggg tcagcgtctt ccaaactgtg 240  
 gacttcattt attcttcata ngactttgac agatcctacg agaatttttt ggcatgaaag 300  
 aatcttagac agagagtatt aaataaaggc ctttaagttca ctacttaaag gttatataag 360  
 atcgtcttat gaatgcatcg tatgaaactt cagacgtaca aatacaaatt atgatctgat 420

agcatattag acacaacttt tatcatttgt gt

452

<210> 31263

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31263

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tgttacttca ggcttaagcc accagctggc ctggacgagc tgggcggcaa gtcctctccc 120  
tattttggct ataaaagggc gtgggaggct gaaagaaagg gttcaacacc ttgggaaagc 180  
atatttcact tanaattatt gaaaagaagg agaaagaaga tgaaaatcaa ggtcgagggt 240  
aacacttctg taaccaaata cgtgaatgtt ctttgccatt cttcgtcccg tcttcacg 300  
tcacgtcctt tcgaccgggt atgttttcaa ttttaagctt tgaattcatt ntattgcacc 360  
ttangngtcc attcttgctt tgtatgttnt catcttcac tgggtactt tcg 413

<210> 31264

<211> 432

<212> DNA

<213> Glycine max

<400> 31264

tattgggaaa gacactagtc ttagctggga tggtttgatt taaccattgc tgctaattgat 60  
gaatgggggg aagccaaaat tcaagtgtgt attatttaac taaaagagtt tctgtgcaag 120  
ccagtctttt gttcttttatt tgcgattttg cttttatttc tttttctttt ttcttgcaat 180  
cttatgctag cttctctaga ctttgctttt aatcatagta tctcattatt gattttcttt 240  
ttcgtgatg ataattgga gtggctatca atcattttac taaattcttg ctgattgat 300  
gcagttctgt tctatctcat tatgtccctt cttgtccttc atttttcgca cgattataat 360  
ttataaatta attgcacat tgaccacta gaacaaccta tttttcatgg aaaatataag 420  
aatctgatca at 432

<210> 31265

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31265

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aaaatcctaa tttggttaag ccagaaattc tgcagcattt gcaaagcaaa ttcaaattaa 120  
ttgaagttat gtacaagcac tgcagctttt acaaaaataa gcaactgcagc ttattttaagg 180  
cagaaattct gcagcatctg cagtatgtgg gtggaaaaag ggtgggagtg gaacttttaa 240  
tggagaagac actngtttga cagagagctt gagatgacag attgtttccg taatgatgtt 300  
gctggcagca gtattcagat tcacaaaana agatgagtggt atctggaaaa tagaccctac 360  
tggataatat tcggtaatta aaggagagac tacaaac 397

<210> 31266

<211> 445

<212> DNA

<213> Glycine max

<400> 31266

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tttcctttgt ttgaagctca ctacaagcct taagtgaaaa accatgatat caccatatcc 120  
ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgggggggt tttgtttcat 180  
tggacaactt ggtttattgg ctatgcttca tgatgtattt tgggccatac ttgatgtaca 240  
ttgtatattg gttaaagtgt ggacatgctg aatgaaatgt tgtttctcaa aggctataga 300  
ataaaaaaaaa aagaataaaa aaaaattcaa aaaaagaaaa ggaaaagcaa taaagttgag 360  
tgaataagat cttaaattggc acaaaactctt catgggttaat tcttatcttt acttcttttt 420  
attctcttat ctttttctta atatg 445

<210> 31267

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31267

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 tgatgaaggc catgattgta catacacaag ctctctaacc aaaaacctta ctttgaatga 180  
 taattgcac ctttgctccc tgtatangct gaatgatttt gtcatgaatt gaaccctgaa 240  
 cttaaataat tatctcctaa tacctttggt agattctagg agaacatatg gttcaagaca 300  
 acattactct anatttgggg gagaaaagtn gaacagaatg aanagataga tgtaagcatc 360  
 agcacacaca ac 372

<210> 31268  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 31268

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 tttcttccaa tagtttggtg tgagacaaat ctaaaatctc catcattacc atgcttgata 120  
 gctgctaaag aattggtgag gtaagcatgc ccatgcctac ttctatcagt ctaacatggt 180  
 gaaatgtcgg agcttctgtc atcaagcaat cctctgggta tattttataa aagaatcagt 240  
 tctattacag aacagtataa ttgccacgaa tattctttct tgttttatg 289

<210> 31269  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 31269

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 cctattaata agaaatgaaa aattgaaaaa aatggtaatt ggattttggt ggatattttt 180  
 tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaatag 240  
 ttactattat gcaatctaga gatgttactt cctttgaaaa tctttttcct taacaaataa 300  
 atccgtaa atcttatatgg tttgaaacaa actcccaaag cagtacacaa aaagttgatt 360  
 aagttattct tt 372

<210> 31270



aactagacca catgccttat tatgcaaatt ctgtagcttg cgagttatat taataactaa 120  
 caaatccatg tggagaaatt atatacagca tagcctgaca ttgagacttg gattctgcgt 180  
 gatacacttt taccacgtga caactctaaa atggagcggtt ctctttatca ccgcaagctg 240

<210> 31273  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 31273

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 taggagcaaa attggaaacc ttaatgcat gaatcattat ttgtttaatt gattggaaat 120  
 catagataac agtatttcag taagacagta aatgagtaaa gagaaatatg tctttatctt 180  
 aatcctacgt ggaacctaat aaaacacaat agaaagacaa cacattttac tatcaaaaca 240  
 atccatatga gaatttatta aactttttga tgaataacct tcgtttgatc ataacaattc 300  
 gtaatagtca tttttgagat attgataatt aattgtaata tcattcgact attcttagga 360  
 tcattgatta tacctataaa taatataaaa ttttttagt cgtcaatgat cct 413

<210> 31274  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 31274

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 ctctcaaacc ctctccaga gggtttcttc gacgcagccc aaatatcagt ttcgtcagcg 120  
 cgcgaaaggg gaagctcccg attggatccc ttaccccaaa acatttctgc tggctcgta 180  
 aaaccctaatt gaaccccaag ggattgaaga ctc 213

<210> 31275  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31275

agcttttctc taaatttaaa atatgcatca aacattgcc aagaggtaca agttgatgat 60

tcatggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgttacat 120  
gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180  
tgtctccttg gtaagcaaca ccgatttcct tacgcaacag gcggagcatg gagagcgaaa 240  
gatctattgg agctgataca tacggacggt tgtggaccaa tgaggacgcc atcacatgag 300  
aacaacaagt acttcatact cttcattgat gacttctcta gaatgacatg ggtatatnt 360  
ctaatagaaa aatcaaaagt ctttggagta ttcanaaagt t 401

<210> 31276  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31276

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cctcggaga aaacaaaaaa agaaaaagaa agttcccgat caaagatcgg aagaaaacaa 120  
aaatagaaaa aagttcgcga tcaaagatcg gaagaaaaaa aaagttaccg atcaaagatc 180  
ggaagaaacc accacttgaa gtggtcctct ccctttgatt gccaaccaaa atcttgtgca 240  
ctagtgcacat tctcgtcccg cactaaacaa aaacagaaaa gggaaaggcc aaaacactca 300  
gccaaatttc tcacaaaaac accattcccg aaaatgtcct attgatccat gatcatgcat 360  
gtaatctttg atttgatagg aaatgatttt canaatcaag tcatgacata tctatgggtt 420  
ggaattagga taaaacactt gcctatgtga 450

<210> 31277  
<211> 409  
<212> DNA  
<213> Glycine max  
<400> 31277

tgtttaaadc attcaaataa tatagctcat tatctagcac taatttgctt atttaattaa 60  
acacaggcat ttaagtcatt gttaaacaca ataaacttca atcatttatg attacgcatg 120  
attacacttg cacttgtaaa tatataagca ctcttctgaa agattaaacg tactgccgac 180  
aaactaggcc ctctcccccac gacagaaact atcatgtggt ctacactcta aactatatag 240

actgtaggca gtattacatg acagataaat gatgctaatt gttcatcaat tgcaattgta 300  
aatgttacat atattttcgc gtattgtagt tgagttgtct taaaagaac actagttcat 360  
gtcagtagat actctctcaa cctgactat tcatagtact ataagttgt 409

<210> 31278  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31278

cgcacgtcga ttgtgatatt ccgaatgaga agaggggtgat ttcctttgag atcctggtag 60  
tccgccgcat caacgttggc cacatnttag ccaactatag acatcatgtg agtgaacagt 120  
aattagatta ctgaaaacac gtaattctgt gcgatgtaac ttgggacaat tcctttgagt 180  
atgtctacta ggctagatac actggcgata catatggatc ctattatgat tgacattgga 240  
agaatataca atgacgtacg gcatattcta actcagatga taccatatca actgtgtgag 300  
aaaagagctg tacgtgacct ttgaccggtt aatgacgcat catttatatt tgttttgtat 360  
caaattcact cgtacagatc cgccaacata tataagaaca gtgtatgatc gtagattaac 420  
aactgcttac cggatcccgga cn 442

<210> 31279  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31279

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cggacgtctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120  
tcgagaaact aaaatgggtca taacttttca cacggaagtc cgattcaggt gcataatata 180  
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattgg cataacttgt 240  
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300  
gtctctgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggcacataa 360  
tatatcgaga cgctcgaaat tgaacaacgt atgggtgtcga gaaattc 407

<210> 31280  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31280

tgaatttgac aacagaagct ctgagaaatt caatgggttat tacttatcac acggaagtcc 60  
 gattcaggtg cataatatat cgagaccctc gaaattgcac aacggaagcc cttaagaaag 120  
 acaaatggtg ataacttttc aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180  
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240  
 gtccgattca ggcgcataat ataccgagac gctcgaaatn gcacaacgga agccctcaag 300  
 aaattcaagt ggtgataact tatcacacgg aagtgcgatt aaggcgcata atatatcgag 360  
 aagcttgata ttaacaacgg aatgtgtcga gatattcaaa tggtcataac ttatgacaca 420  
 gaagtccgat caggcgcata ata 443

<210> 31281  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31281

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 ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120  
 tggggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccacatga 180  
 actaccccaa ctgaacatag tccgccatat cccggcctca cccacacccg taaaaggatc 240  
 tgttcccttt gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300  
 cgagggcctt ggcaattacc cattctcgga tttggcagat ttatgtcttg tgcccaacat 360  
 cgtcatccct cccaagttca nagtaccaga cnttgataag tacanaggga cgacat 416

<210> 31282  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31282

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ctaacgttga gnttcttctt ctgccttgta gagctagatc aaacatcact tggatgtgat 120  
attcaattaa agtactaagg ataacaaagt tgatgggggc aacatttgag ttgctagaaa 180  
agacaacaaa aacatcaaga acctcctttt tcaactgaaga atcttcattt gaggtgtag 240  
cctacttgga cgcaggttca agttgacata ttaaaataac ctcaacaacc ttggctgcat 300  
tggactcaac ttgttcgtta actttttgca ttacaccaga gattgagaga tcaataagaa 360  
cacatcaaat atatgatgtg gcaatgaggt gtagcaagca aatgctca 408

<210> 31283  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31283

agctttatgg cttgttattt ttcaatcata atagtagcag gttcgatata tcttcatcat 60  
ttgaaaaatt tgtaacagga gatagtgtgg cagaagagta aggatatcta tcttcccaaa 120  
gtcttgagg gcaattagga ctttgttctg gattttatgt catgatcctg acatgtaagt 180  
gtatcgtgtt tgagctocaa ttataagctc aacaagcttt gctgtaacat acattggaaa 240  
aacagatcag atgcttaaag tagtctatca agctganatg atgatgacaa gaaagtaagg 300  
cactaaaagg gaaacaaagc aaacaaataa gtatgaagct cacctgtgag aaatcccatg 360  
acaggtatag gttccanaac tttctcagtg ctttcaagtc tttgcctaaa aca 413

<210> 31284  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 31284

ctgcacatgc gtgaagggtt tttcctgcac attgaactac ctatattttc ctaatcagct 60  
cattcaatga aatggagggt ttattgatac caatgccac agtatattgt ttcctcaagc 120  
gagattagct ctatcttgcg tcgttcaata taccttcttt ttgatagcga aaaagacttg 180

atggtcgaat ctaattacca ctcacaactt aggcaaaact ttacgtagaa atgagttatc 240  
ctaaaatata aaccataaac caaaagaccg gatcagagaa cattcagact gctattcaaa 300  
ctcatacatt taaatgtacc ttgtcaagac ttcatgaaca taagaaacgg taaaccgaat 360  
aaagtactga aattggctgt aaagttaa acaggactat cttgcctaca tattttctgc 420  
t 421

<210> 31285  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 31285

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gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120  
tgatggtgtt cctagacaaa accgaattga tggattataa ctcaacattc ctccatttaa 180  
aggaaagaat gatccggagg cctacttggg gtgggagatg aaaatagagc atgttttctc 240  
atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt tttccgacta 300  
tgctcttggt tgggtggaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360  
tgatacatgg acggagat 378

<210> 31286  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31286

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tcaatttcga gttctcgcac atattatgcg cccgaatcgg acatccgtgt gaaaagttat 120  
gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180  
agcctgaatt ggacatccgg gtgaaaagtt atgaccattt gaatttgcca gagtttccga 240  
tngttaattt cgagcgtatc gatataattat acgcctgaat cggacattcg tgtgaaaagg 300  
tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc tcgacatatt 360  
atgcgcccga atcggacatt cgtgtaaaag ctatgaccat ttga 404



<210> 31287  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31287

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gtggctgttc ttgactctgt catcttgaag gtgtacaatt gttgcttcaa gcatagccga 120  
tttgcaaggg actttgtcat atacaatggc tctagtttca accacattga gggtgttgtc 180  
ctttctcttg caacttctct tanagcttta tctccaagca atagaatgat tgcacttcgg 240  
gatttagcaa tcatctctga tttctccttt gagcttagag attcaaacat cttttcttct 300  
cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360  
aaccgaagt cattttccct tanaacttct caatatcgta c 401

<210> 31288  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31288

ctatagaata ctaagctctg tccctcacgt attgaaggca cttnttttgc tctccttttg 60  
tcaatngata atggtggact tctcttagca tcatgggggtg gtggctttgt tctccacatg 120  
ctcaggatca caaaaacaaa gtttgataac atttggttgg cgattttgat ccgcaacatt 180  
ttaaggattg ctccactttg gctcctgttt ttggtgccta gagctgaccg cagctcttca 240  
attcttccat gtaaaagcat gaattcagag gtggctatcg acccttcaga caccaaaaat 300  
gttgaattgg tgtcccttgt acacagtgtt gatggtaaatt agtggaatga aaagacattc 360  
ttttggattc tcaattccaa atacacgaaa ttaccaagcc agtgtagaat taaacgtgca 420  
atttgttttg atttaattgtg gaaaaaaaat aagat 455

<210> 31289  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31289

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 ttattggaga ggaacattga gctctctacg ggcattgttg atgaatttta cagagagcta 120  
 caatagaggc agtggcaccg agtactcacc agactctcgg aaaagcaa atagacatcgct 180  
 ctgggtcaaag aattctactc aaacatctat gacccaaagg atggagctcc aaaatattgc 240  
 aaggtgcggg ggcattgtgat caagttcaat gcagagacca ttaatgattt cttgaacacc 300  
 ctgggtcgtcc ttgggtgacag agaggaacan ttggcatact cctagtactt gcacacatac 360  
 ccagaccacc aagcgattgc ggaaccttat gcacacccgg a 401

<210> 31290  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31290

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 gacagaaatc gtaaaaaaga aagatagggg acgaatctcc aaaagacaaa gtaagtggta 120  
 gacggaggta gacgaccgtg aatcataaaa aaaaaaatg agagaaaaat atatatgaat 180  
 tgtaaaaaac caataatcga aaatatgcag aattggaacc ttgagaacga caaagggaga 240  
 tgcgtggtaa caaatcaagg ttttcaaca agaattttta gacgggtggg atgtgggagg 300  
 ctgaaatcaa aggcacgtga ttgagtataa ttttttaatt agaattatta gattaanatt 360  
 agatcaatgc ataaggattt atgtaactct cttagaatta tatatactgg aatttaattcc 420  
 ctttctcata tatattggta acaaaacgta ttgtaa 456

<210> 31291  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31291

ttctccctgc ctctatctca atacacacac aagcatataa aacatgggaa taaaaaaaaa 60

aatagcgacc gaaatgaaat accaatacca cacatccaat tagaaaaaat aataaccggc 120  
cctaanttaa tatectgatt tctcaatatt tattatttaa gggcggggac cttttatata 180  
cagtttaatt cggccgccag ctttgcgcgc tctttcgtct cggatcattc ccgtacgtcc 240  
tttgagttg actctcattc tctttctctc tctacacctc tctctctctc tctc 294

<210> 31292

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31292

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ccaaattaat catatataat aactaggtca caaaaactac gcaagtggta acaactcaat 120  
caacttagaa catgtttgac aatcaagtgg aaaacaactt ttgagacaaa aatatttttg 180  
caaaagaata aatgcatggt tggacccaag ttagaaatga tgtacacatg ttacaatgca 240  
cattcaatag ataaaaacaa aaacaacaat cttgatcttt tagtaaaaaat actctttctt 300  
taaaagtatt ttttcacctc attgtcaaac atgtacttag aatctcttgt ttttctttca 360  
ttttggtttt acctatttgc atatatacta gagcacactt gttgtaacaa t 411

<210> 31293

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31293

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caaaactctta aatatcatgc accaagctgg aacaagggca aaaggctagg caatccttgg 120  
ctaacaagtc aatagcagat tgagaatcag attttactat aagaaactta aagccacgac 180  
tccaagaaat ctttactcca atgaggatcg ccataattt agcattgatt acagaacaat 240  
tcccaatatt aactgagaat gagaaaatta catttcccat atgattgtga agtaagccac 300  
caacaaaaac tataaaaatc acttttggat ccatacacaat taagcttaaa atggtcacaa 360  
tgcggttgct ccnaaaaaat attgntctaa ttattatcct gatcactacc attccctc 418

<210> 31294  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31294

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 ttatgaaaac agtctaagca atgctgggtg tttattgggt tggaaactaaa cttaaacaatg 120  
 gttgtgctac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180  
 atcggatatga ccaaggagga tttggataag aatctgggga cgatagcaaa atttggaact 240  
 tctgggtatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg 300  
 aatatgttaa ttggagatgt gtgttatttc aacatttggt gagaagatgc caacaagtgg 360  
 agatctcaat ctgattgcgc agtttggagt cagcttctac tctgttatct tgtggccgac 420  
 tat 423

<210> 31295  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 31295

acccgggatc tctaagcacc tgcagctgca gcttttgttg tctatttttt agagagaaaa 60  
 ggccaagtcc agagagtttg agagatttgc tatggaagac ctgagagaac cgagcttgaa 120  
 gaggaagctg cctgagaact tagatgagtt gtgaggattg gaagttctaa gtggacagac 180  
 atcccaccac tttattcttc atccttctct cttatctctt tttgaaagga agcttccagt 240  
 atgggaggta atctctgtgg tcttcttgaa gacttgagac atactgatat ctattaatgt 300  
 gtttgtgggc ctatgcttaa cctcttctcc tgctttcttg atccgtgatg ctgggtttga 360  
 gagcattgct tggg 374

<210> 31296  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 31296

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 cttattacta atgtcacctc cttgacaagc tctcttgaga acatccctga agaatctaga 120  
 gcttacctac acccacctct ctaatagcta agctcacctc cctgagatga gaagctaaag 180  
 cttagctact caccacctat actagataag ctcacctca ttcacaaat acatgacaat 240  
 accacataaa agtcctact actcagacta ctcataatgc cctgaaatac acggctaaca 300  
 tcctatacta ctagaatggc caaaatacca tgcccaatag aaggagcaac ctattctaac 360  
 atatacaaaa aaagagtgga ccaaccttga cccatgtcgt ctaatatcta c 411

<210> 31297  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 31297  
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 ccagacagaa aatgtaagaa tgaaagatag gggacgaatc tccacaagac aaagtaagcg 120  
 gtagacggag gcagaccacc gtgaatcata aaagaaaaaa atgacagaac aacatatagg 180  
 aatcgtgaaa aaccaacagt cgaaaatatg ctcaatcgga accttgaaaa cgacacaggg 240  
 agatgcctgg gaacaaatca aggtttttcaa caaagaatct cacgacggag gggatgtggg 300  
 aggctgaaat cagaggcacg tgattgagca aaatagtcca actataatta ttagagtaaa 360  
 accagagcaa tgcataagga tctatgcaac tctcttacia tcatatatac atgaat 416

<210> 31298  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31298

ggtttgcaag cttttacttt ctataacaaa taaatttaaa tctaattatt tatcaaatat 60  
 attattatca caaaataatt tcaattactt tatgaataat atcgtaatta aattagtttt 120  
 atttttttta tagtaaagat tacaaatatt attcccgagc gataatccta ctogagatta 180  
 ttttgtgtga naaaaatcaa ttagaaaaca taatatcatg aattaaacaa tcttagtttt 240

catagaacca aaaattatca ttacgaaga caatcatact caaaattatt gtggatagca 300  
aagttctatt ctattataaa ataattctaa attacttatt caataatatt atagagtaca 360  
ttagttgtaa ttcttttatg atgtagacca taaatattct tcgcgggagg caccaact 418

<210> 31299  
<211> 486  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31299

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tgtgcgtact gataggtacc atgatgtttt ttctgtgggt tgacacaaac cgggtggagaa 120  
gacactgcaa tggcactcct ctcttttctt attgacctg tagaccataa tcttttcgcg 180  
ttcacgtttg tggaggacac gtaattcaac tctgcctttt tctaatacaa ccttgcat 240  
ttccccggcc aacaccccat tcccatagac tgaaggcatg caaccacta gctgttcata 300  
tgacaacact ggccaagtgt ctaccatatt gagatcattc tctctcaaca tgggaggagg 360  
tacttgtgcc ccaactctc cattgctgag catattatca aggctcacgc cttttcctaa 420  
aatattctga ctgcatacgg caggaccaca tctaattgac cgatactgcc tatgacgccg 480  
atatct 486

<210> 31300  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31300

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tcacgaagaa tggcatgac actagctacc atgntttcta tgagttccat tgcctcctcc 180  
ggtgtcttta gcttgatatt cctcctgcg gatgcatcta gtaattgctt tgattgtggg 240  
cgcatgccat ctatgaagat gtttagttgc accggttcac tctacccatg tgtaggtgtt 300  
ctccttagca gtccgtggaa acggtcgagc gcctcgctaa gggattcatt gagaaattga 360

tggaaggaag agatttcctt cttgccttca cagtctttga ttctg

405

<210> 31301  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31301

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tgaagctgtc ttctgaatcc agaagcccta caatcaataa gacaaggagt gagtttcaca 180  
tttgaaatca ctaaactatg tcaaacgaag atttgattat gtcaaacgaa aatttggtat 240  
tcaagtttca tactcctttc tctactgtct ctgatagtat aatacacatt tattatcaat 300  
ctatggacac cattctgtct tagcgttgct agatatcagc ttttgcgctt tatttaataa 360  
acatgccaca tatgtgatgt gaactaaaat atgtcaca 398

<210> 31302  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31302

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aatcaccatt aaaggacctc attaaagctc aaagatccag cctccataga agccccacaa 180  
gtttttgtca agaggagaa gggaagaaac aaaagaattc tcaggcgggt agtcatttga 240  
atcttttggc aagagaaaga agtgaatgaa gaagaagagt agcacaagtt tttgaacaac 300  
gaacttttct tggaagagaa agtattgaac aaaanatcta tganagaaat ctgttgatca 360  
tnaaaacaaa tcaatctttt agaatganag gaatcagttc 400

<210> 31303  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 31303

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tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctatttatc tatgggtggat 300  
gtacccgggt gagcgataca tgaagatctt aaaaggggat acaaagaatc tatatcgctc 360  
ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<210> 31304

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31304

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cttggaagga caataaacca aactccccca ggcattccata acataatctt atgcattttg 180  
tgaccaacca nggatttaca tccttgacat tcttgtaaat gtgaaacctt cacaacaagt 240  
gggtacactc anganatata gttttcactg cattcattaa tgctagaatt ttatcggtag 300  
caataactcc aaagagggca tcatgtctaa gaaaaagact tcgaaaccgt tctatagccc 360  
acaccacatt atttagacgt tct 383

<210> 31305

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31305

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actgaaaccc ttatgctgaa acaaaaatta tgattgggtg aaagatatcg taagtatctt 180



tgggaagacc ccaaagaagg aatcatttga gaagaacata tggaagaaaa ggtcaatatt 240  
 ctttgatctt ccatactggg ctgattttaga tgtacggcaa tgtaaagaca taatgcatgt 300  
 caatattctt tgaagtcattg atttccatac tgcattagag gctgtcgtcc catgtgacag 360  
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 tatgcagacc ttcgtc 436

<210> 31306  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31306

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 tgtttggggt tgctgttgta attagtggct cccaccgtct tcaatcttag tctcttctta 180  
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 acaaactttt ccatttttga gatgatcttt ggggtgtttc gagcaccgta actaagctng 300  
 cggaggtcga tgaggcctag cttgaggtcg gcgtacacga tgtccaagcg gctgaagctg 360  
 gggtcgggagc atttccggcc gaaccgtgag acagtgtctg 400

<210> 31307  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31307

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 aggggaagtt tctttaatgt ttgtctttat tataaaatga ctttcgttct tagctaacct 180  
 cttggaggag acacttacct ccttatactc ctccttaacc attaatgggt gtcattcttc 240  
 ttgggggtag atttattcac tagattcttc cctttttgct tcttcacttg cactagagga 300  
 agatgaagaa gtagtctcat cttggctact ataaatgtct tggctcctca taatcatggc 360

tttcttggtg gggcattgaa agtaatgtgt cctttccaag acatttanag cactttat 418

<210> 31308  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31308

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gatgtgtttg atttagaaga agaaaataga agataattgt aaaattcaag tagagcgtaa 180  
aagacatgaa ttccgtgtga agaatacaca attttctttt atttcttcat tcccacccta 240  
atccaaacat cacctcttgg ccttgcactt taaagcgtca tatcaaattt aaagtgtcgt 300  
gatcaaagca tgaacacacg atgttttgag gggttatgtg actgtttact aactttcaat 360  
gtgattacta cttaaaataa gaaatgttct cttcaaacat gtgggtggat ngatatctatt 420  
gatagat 427

<210> 31309  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 31309

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cgatgatatt agaaaaacgg ttagtttcat gccttcacca caccactctt ttctttgatt 120  
attgtagata tgttttaggtt tgcggggtta tgaaaaagat cttttttttt ttgcttact 180  
agtgatggat ttctgatgcc ccacttgga atattatgga atggtaaaat gtaaagatgg 240  
tagctttggc taactttgat ggattcctga aaccttctt ttggtatttg tacatggtaa 300  
cgttgttggg attggaacat tgtcattcgg tggaaagagg gtccaaaatt gtctggggta 360  
tgtatgcact ctggaatgcg tgttttgaat ttttttcta tgggcttatg ggtcctgaat 420  
tgttgggtctg cgttacttat catttgat 448

<210> 31310  
<211> 380

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31310

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tagaattgcg atgatgtttg aaaccaatag agaagtgaag ccaagtctta gtgattttgt 180
gccacaatc cattgagagg agagttatgt gaaggaaggg attatggata tatataattg 240
gcaccgaaac ctggaacacg ttgngtgatg gatgtgccaa gcgtctcgtg gtggtggcaa 300
tacttactag tactatatat gatagatcga tagaatggtg gcttggatat ctgagtttac 360
acttgtctcc ttttcgtatc 380
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<210> 31311  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31311

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gcattcatat tgtgttgcaa attttcgcca gactccatga aatctggggg gaatgaatgc 180
atataggagg tcaaactact gaatttttgc tcctctccgc tacnggtcat acgttggaa 240
tgtccataat aaaaaaattg atccaagaca ataatatgtt acgataatng tatgtgacaa 300
tatggtgtgc gtgtgtttgg ggcgaatctg caatgtgagg aataagtga cctgtcttt 360
aacatatagg cagggttgga ctacctaagt gtgttgctgg agatgt 406
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<210> 31312  
<211> 568  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31312

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nnnaagcggc ggggtgatgc ctgctancac ngacacacac aanactcaag ctggccgctc 120  
 tntctctctt tggtaggca cacggcaaatt ttttactggt gtattgtaat aacaactcaa 180  
 tgggcgcatt accaggggtga tgcaaagtat aaaatctgaa tgtaaaatca ttcgaaaaac 240  
 atgggaagag gccttgcatc cttgcgccta tgaaacaaag gaaaggatca ctctacttgc 300  
 tttggcggaa aatcccactt tggatatcaag cctaaactct ttgaaggcta actcaaagag 360  
 gaagctctca gtatctgttg agtctaattc agagagatca aaatggggtt atatatatc 420  
 caagagagaa tatgctacca ttaacccan cctgggtgat gtaattctta accctgtgta 480  
 acgcattaaa ctaatatgaa tacttcaatg taatcattcc ctttacctca atgcgggatgc 540  
 taagagtaat tcatgtaaca tcgaaatt 568

<210> 31313  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31313

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 aaaacattag cccaccttgg cataaaaaac atgattcacc gatattgaca ggaaaagaaa 180  
 aatgctagcc gacgtcggcc aggaaagatg accgaccgat gtctgaanaa gaagcatgac 240  
 cggatgactc cggtcgaaca tttcctaaca gatatcatcc aagtattatt cagggattga 300  
 atagaacaaa caatagccga catcggtagc taaatagccg tgactgatat ttttcggccg 360  
 acattgcgca atntctttta c 381

<210> 31314  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31314

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tgcggccata tgcagcgcc ttaaccaaca cactcttttt atatttgatg gctacggact 180  
 cgaactcctc ttcgactaac ccggctcttt caagctctgg cttaaggct tggacctcat 240  
 cactctcttc cgaagctcta accacaccgt atctcacagc ctctagatct gggagccaat 300  
 ccaatccttg tgtgtcgact ctcatccacc tatgaaagcc gccgacgatc ccaacacctg 360  
 cttccccata gctctctgtc cttctctcac gccgcacccc atgccttgcc aactccttgg 420  
 agcacccctc cgtttgggtc actgaaacca catgcaagaa atggacgatg cctccgtctg 480  
 atggcacttc cctcatggcg tagccaagct gcctattgag aggaccgat tatattaaca 540  
 caacccccag tgcccatcac gagacg 566

<210> 31315  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31315

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 gggcctcgtt caaaaccttc actagcagag cccgatgagg ctgagagctc atgagtaact 180  
 ccaacaacga gaccctggcc ggagttttgt tgagctgttc gataaccttg aattcgctct 240  
 actgaattat acggaggaac tcaactgggt tctctagtga cacctnnctt tttaccatcc 300  
 tttntctccg ggaggccttn tgccggaata tctttattcg aagcgtgggg tgcttcgcca 360  
 tcttgttcct tcaccactat tctttttccc 390

<210> 31316  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31316

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 aggtcgattc tagcgcatca catatcgaga cgctctaaat tgaaaacccg aagctctcga 120  
 gaaactcaac aagtcataaa ctagtccac ggaagtccga ttccggcgca taatatatcg 180

agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240  
acagaaatcc gattctggcg catcatatat cgagatggtc tgaattg 287

<210> 31317  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31317

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gatccatctt tctttcttac cagcaagact ggggatgaaa atggactcga gctaggttgt 180  
ataaaacctt tcgcgagcat agtagctacc tggtcttoga tctccttctt ctgaaagtaa 240  
ggatatctat atgggtctaac cgttcacggg gttgagttag gcaatagatt gatgggtatga 300  
tctgtggatc gtgatgggtg canggtcgtg ggaggttgga agaggggaagc gtatntgggtg 360  
atcaatgtat tga 373

<210> 31318  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 31318

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atztatgatg aaatgacatt gttttataga taaatattaa ttggtagcat tattagcttt 180  
tgctagcgaa gaaagtaaac ccataatctc ttctctgtcc attctccatg gatcatggga 240  
caactttata tctcattctt tctgatagta cataaaccct tgatgtgtga ttattataag 300  
cacgatatat aaggtgcagg gaaattacta ctcatgttgg cttgatactg acatgat 357

<210> 31319  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31319

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aacaccctga ctatatcaaa ggactttcac aatctttgtg tgttgccctc accggaaaga 180  
gtgattcttt cttttctttc atcttcaacc ttgttctttc aaaccataat tccagaaaaat 240  
ccacttttgc ctagaattaa ctggtggcca taactcccat ttacacgctc aaattaagtg 300  
attcttgagc ctaaattgaa tntcaaaaatg agatctttca gctcgttntg gaatcacctc 360  
atttgagacc ctggagcttg agttattggc atttctata 399

<210> 31320

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31320

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acacttctac aatgtgaggg atgtttctga tggttttgat gtcaaatac tctctgatag 180  
agttggagaa gtgatagaca agttggaaac tttgcaggcc aagcttgact caaaagtgca 240  
agaaatggat aaaaacaaag gcacctagtt ggacaagaag tttttaagg atcaaatagt 300  
tatgccatct tataatgcta atgttgctct aatgcgggat agggttcccg aaggatgata 360  
agggatgaag tccgcagtga aaaacgatca tgtgatcaat tntttcatca ctg 413

<210> 31321

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31321

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aagaaaaggg cagaagattc atcctctact ccaaaatggt atgaatgcaa tcaacctaga 180

catctaagga ttgattgccc aattttcaag aaaagaatag agaaatttga aaaaaaagtt 240  
 tttaatgaaa agaaggctaa gaaggcctac attacatggg atgacaatga tatggactca 300  
 tctgaagatt cagaanacga agttgtaaat ctgagtctga tggccaacaa ttatgaaaac 360  
 gatgaagagg taacatcttc tgataacaac ttatccattc gcatttgatg aatac 415

<210> 31322  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 31322  
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 aaaaatgtaa caaaatttaa atattatcaa attattaatc tcctaaatct aaaagatacg 180  
 tcaaactctt atctttatct aaacaaattc ataataattc tatattaaat aatatactca 240  
 acgcttgaaa taaataataa attattaataa aataaataaa ttactccttt gtaaagatat 300  
 catacatatt tcaataactt taaacaagaa tttggattac gatctttag ataaaaaat 360  
 gattaaaaag gaagactcta cacaagataa ttaatcaagt tgtttgaaat taattatcaa 420  
 caatgtccgt ggatactcog tcacaataac a 451

<210> 31323  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31323

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 tccttcttcg tccactccta ggcgcagttc aaacctcct tcgcaacccc acatcgataa 180  
 tattattgtt tctggctccg ccacaaacca tataaataat atcaacctt tgctttatgg 240  
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<210> 31324  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31324

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 aaagttataa ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag 180  
 gctctgtttt gtattcttaa tcaatctttc taacaacaat cttgaatact tttgcttttc 240  
 caatcaatcc tttaacaagcc ttgaaatctc tttgaagtcc ttcttcttct tcttttgtac 300  
 cacaagcttt ctgaagttnt ctggttctct aaaccttgan aacttgtgct attcatcttn 360  
 tcattctct 369

<210> 31325  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31325

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 gattntgaaa taatgtgtga tgcaagtgat tatgcagtaa gagcagttct ggggtcaaagg 120  
 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaatgaa gctcaaataa 180  
 attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaat 240  
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300  
 tagttaaagc tgattctaaa ccctgactta tccaatggat tctattgttg caagagtttg 360  
 acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420  
 tgaccattga tgaggtgacc acacaataa 449

<210> 31326  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31326

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 gcttggtggg tggaaacttt aacttatatg gtggaggcca acagtgcaga atgttaggaa 180  
 cataagctgc tattcaaagg ttactactta gtggttagag gtactcctat ttctaaggag 240  
 cataccttgc cgccaaatta agctagatat gaaaggctgg atgttctgcc acttaagact 300  
 agtattttgtg actctattat gttctcacta catgactgac ttactataca tttaaacaat 360  
 ngaaatntct tctagtatag ctctttaagg tgttctacat a 401

<210> 31327  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 31327

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 gcagaagatt tgcataagg ccagacaaat gctatgtatt ttctgatagt ggaagagtcg 180  
 acaaaatgag gtctggatgc tggctcgcca atcccaatgg tgaacatata aacttatgta 240  
 cttaaaactt acagtggatg ttcaaggcg atccatcggg tcacgaattg gaacgataga 300  
 aatggtactg tgggtctcaa gagagaacaa gctcgactt tggatcgagc tttgggc 357

<210> 31328  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31328

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 actaacgtct tttaaaataa taatttctag ttntatatat ttttttatTT ttatccttaa 120  
 tatatttata aagtttttta cttattcttt taaaataaat cataattttt ttttagttat 180  
 tttatatTTT tcacctgata aaaaaaagtc aaaaactaat taaaatatca tgtcaaactt 240

tatcttaata agttaattnt tcagctttca actataatct tcttttaact ttgactaat 300  
 tnttcagtta tttttgttaa atataatctt gctccattga tcctataaat ataccgtatc 360  
 attaatcagt aattaatatg tcacgtctt gcacatggac tac 403

<210> 31329  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31329

taaaaagaat catgtaatag tagntntgtg atctctgatt taactaataa cttgtgaata 60  
 gcatattcac tcttatctga ttttttgnta ttatctatct taccctatct ttcaagggtt 120  
 ttggcactaa gaaggcccta tgggtgtttc cattgttttc aaaagaggat ttaaacaaca 180  
 tacctgcact aaggggcatt gagttcccta cacgttcgga tgttgatgta tgaaagctgg 240  
 gtagcttata gggttgaaca ttnttttcat taaatgatgt catttatgct tacttcatga 300  
 cagtgcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360  
 aatngtccag tagatgtata tatgtaatgt tcgattcaga atgtttgatt attcttataa 420  
 tctaagaacc tgtgatct 438

<210> 31330  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 31330

agcttctgtt gttcaatttc gagcgtctcg atatattata tccccgaatc ggtcttctgt 60  
 gtgaaaagtt tgaaccattc gaatttctgg acagcttccg ttgttcaatt tcgagcgtct 120  
 cgatatatta tgtcccaaaa tcggacattt gtgtgaaaag gtatgaccat tcaaatttct 180  
 tgagagcttc cattgttcaa ttctgagcgt ctatgatgag tatgtccgcg aatcggacat 240  
 cctatgaaaa ggtatgacca ttccaatttc tccagagctt tctttgggtca atttccagcg 300  
 tctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc acttgaatat 360  
 ctogaatgct ttccgctgtc aatttcgagc gcctctatat tttatg 406

<210> 31331  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31331

ntggagtttc caagtgccaa ttcgtcttct tctttagtcc agtcttcttc tggcttcaat 60  
 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
 tcatagttag ttccatcgag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240  
 ttcacagaaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300  
 aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtcacgaca tcacgcttca 360  
 gaacatgcag attatatgtg tccgtatgaa cagattatac aagtaaataa cacaagagaa 420  
 ttgtgtaccc aggtcgggtgc tacctcacct acatc 455

<210> 31332  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31332

accttgaatt aattcctttg atagcccctt tgagcctatt ttccccttcc tttggtttga 60  
 agctcattac aagccttaag tgaaaaacca tgatatcacc ttacccttaa agaattttgg 120  
 agctttggaa ttggtttggg aataagctgg gaataagtgt gggggggtat gtttcattgg 180  
 aagatatgat ttttggccat gcttaatggt ttattttggc cttgcttgat gtacatatat 240  
 tgcttagttc tttctttaat cttcaattnt gtactgggtc aataaaaaaa taaanataat 300  
 aaaaaaaatt aaaaaaaaag gtaaaaaataa ttcagttgct ggcaaattct gcatttcgta 360  
 ctattaaaaa aaaagaagta gaagaaaaga agtgaagttg aat 403

<210> 31333  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31333

tataatgaaa tgataaactt caactttatn tctgtagaat atctttacaa caaaatgttt 60  
gtaaaccata agatatagaa cataagtaag actcccacta aactaaggta ccatcaagaa 120  
ttacatccat atgagtagtg tgctcatgaa aaaaacttta agtgtcagac ctttagtaag 180  
tgcatcagct agcatggaat gagtccctat atgttctata gaaatctgta ttttttgagt 240  
tctttattta acaaccaa atctttatgac aacaaat tttt tacttggttg aatcctaaat 300  
aagatcgcta agatgttggtc ccaataaaca ctgatgact tcttaatgtt ggcaacaaca 360  
actaagctag ttacaataat ntaaaagtca taaattctag tatgatgtct catagcanaa 420  
atattaac 428

<210> 31334  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31334

acgcttaact taaacaacat tataatcaca acatattcaa aaaacaaaaa cccacaata 60  
aaactctggg aatgtaagta tttagtcttg cttttatcaa gttctaaggc aacagtatat 120  
ttccaatgc ttaagtcacc taacagtaca cacaaatggg ggatcaaacc aagagcattc 180  
cataattaag cattgaaaga agcattgaac acacaatata caattaatta gatattaaag 240  
ataattacat caacttttcc ttagaaatct ccaactanga tgnntagcca gccatacaca 300  
gaaacncgaa cacaaatgag atagagagta tagaataatt gctgcttaca caagaaaggg 360  
gatccnnntc tctcttcttg cacctcacia tcac 394

<210> 31335  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31335

tactaagctt ggacatcaac taacttcatt ccctatgcat attactatct ctttatatct 60  
ttgacccgaa atagnngggaa tggtagagatt atgataagat aatattgaac atatcatgtt 120

ttttaagagtg gctgatgtaa tatcttgcac gttggagtat aagtataagg tgaagtccca 180  
 catcgggtta aaatggacaa gttgagcacc atataagtga ggagaagacc cataaaccag 240  
 agccttaagg ttttgggtta aagtgtggtg tcaagttcac ttatgtggtt gtcattgatt 300  
 cattgatgta aatctctcca atttttaccc ccgctcagtt gcacaacaat tggattataa 360  
 g 361

<210> 31336  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31336

agctttgttc tcagatctct ctgntggac tagacttaga ctaaacaaca ttattgtaac 60  
 aacatattta aaaccaaacc ttaatccgca gatccctctt gtaaaactaa gtttcaattt 120  
 tgcttcattc aagttctaag gcaacaatac atttcccaat gctaaaatca cctaaccaag 180  
 cacaaaaatt ggtgatcaga ccaagagcat acagaattta agcattgaaa gaagcattga 240  
 acacaagaaa cacaaatcaat tagatattaa aataattaca tcattingttc tttagaaatc 300  
 cccaactagg ttgtttaaca agccattaca gaanaacccc taataataat gagattacaa 360  
 aacctangta tctcttgcaa agctgctcct c 391

<210> 31337  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31337

tgtaaaactaa natagatctt agatagaagt gtgatattgt tattttctga atggaaaccc 60  
 tcttaagagg agaaatctat ctttatgcaa tccaaacaca gaaacccttt gttggtgaaa 120  
 gtccagcaag tggctagcaa aggttgtaac tagtggtggtt ggtggtctaa caatggcaag 180  
 gtgtgaagtc tagtgggttt gttggtaggt tgttgaaatc cagtgggttg ctagtccatc 240  
 aatgaaatct catcttgaag ggtgtgagga ctggacttag cccaagtttg gggtaaccc 300  
 gtataaaaat cattgtgtat catcttcctt ttctatccct ttgcattggt tttatactgg 360

aaaatgttta ctatcttta ctctactaa ggatggtaac tccctttgaa aaacacattt 420  
 aaaactgana ccatgtgtca aagtcttttc aacta 455

<210> 31338  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31338

agcttatctc tagacactat ataccagatg ctgtaaataa tgacaggaga ttccatgcaa 60  
 cctcctttgc aggagagcac tgccatggct gcttaagcaa aaaaaagaaa aagaaaaaag 120  
 ataacacaat tgaaagggtta agaagttaa agaaacaaat gtacaaatcc tactgccaat 180  
 taaatggaaa taaactaaag tgattatacc caatgggtgt aggcgtgtag ctcagctgct 240  
 aacacagacg ctgagtttgt aggggaggac ctangtttgg tccccgcaaa atacatttct 300  
 tgagagggcg ataaccttaa gtgtgactaa gtcctagacc anaaattaat ctcatagtcg 360  
 actc 364

<210> 31339  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31339

tactaagctt aggttttgat gtgtgagatg cangcaacgc ggaagcaata natttttagta 60  
 gtccagcttg acgagatgct tgtaactcaa gatcctttcc ctccaaatac tagaaaacaa 120  
 aagttaataa ataaaggaaa acaggcactt taaaaaatta actaaagcaa tttaaaaatc 180  
 aaaagactac tatccataaa ttatgaaagg gaaatgcata catttacact tgtaataatt 240  
 cttaaaaaaa ggaacttttg gttaaacaac tagttaagaa aaaggatttg ttggacgatt 300  
 gtccataaaa gttagtgatt tataatntctg ataaaacaaa aacgaagacc atatgcaagc 360  
 atcaaccaga aaaggacaaa gaanagctca gcaataactt cgagtctcat acgaatacaa 420  
 cagcaggaat cactagttct tccagataaa atattattca caaat 465

<210> 31340  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 31340

tgttgcaagc ttatttcgac aatggtggcc tcttggaat gaagcggcta ttctccttc 60  
 tgatgacgca tggacactta tctctgacct aactacaatt cgttcgaaag gtcgaccaa 120  
 atcaacaagg ataagaaatg agatggattg ggtcaaacca tctgagcacc gacaaaaatg 180  
 tagtagatgt ggagccgaag ggcataacag gcgtcgctgt ccaatgcaat ctgagtgtgg 240  
 gagttgttca actcgctgat ttatgtatgt tagtcgagtg acttgtatct gcttacgttc 300  
 tgtttaatgt atcgaatctc ttgggttcaa tgaattcggg agctaaaacc attctggctt 360  
 ctgtacatta cttatttctg gggttcaatg acatcggttag ttaacaacat aaaca 415

<210> 31341  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 31341

cggccggtgt gtcctgaat acgcaacata atactagcat tgcaagacat tgctttgtaa 60  
 cgccattatt tcttacctg catatttgaa tggggtgacc ttggcaggac cgatcatgcg 120  
 atagtcccat accttgccga ctgcttatac agatacgatt tccagtgatc tgaagaacgg 180  
 ccacaatctg gtgctccaag ttatttacta ctttacagta cttaatggat ggcacgattg 240  
 taggctaggc ctcatgatcc atggatcatt cgaaccacat ctacctatca tacactcgag 300  
 agacgctact gtgaggcact gctaccatac ttaatatgtc tactcattag acagatggct 360  
 gacacgatat cgcgacgtct cgctgcctaa tataccctat atgcttggac tgatcaaacg 420  
 accaaccaat tagagcgagc acatatgtgt tatctaataa agtgtacgta cctacactgg 480

<210> 31342  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 31342

agctttttca gagaaggaat ctacggagga aatgcttacc acctcgaaag actggaaagc 60



ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agctcaccaa 120  
gttgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
gtggagtgtg gaggggaacaa ctcccactga gtggatccac ggacgcccc aacagacagct 240  
gtagggggggg ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggcctatcta 300  
tactgggagg tcgatctctc ccctaacctc tc 332

<210> 31343  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31343

tgaaccttga atcttaattc ttgattcttg aaatcatatt tcctcttgaa ccttgaagtg 60  
ttcttgattc aatcttgaac atcttgaact cattctttga ttctttgaga tcatcatctt 120  
tgttatcatg aagtgttctt gacctttgag ctttttgcca tcatgtttgt tatcatcaaa 180  
acttttttga atcaatcttg attcatcatg aagcttgctt ttacaatctt cagctgctgg 240  
taatcgatta caatcctcat gtaattgatt acatgccttc aaaaatattc aaaattattt 300  
taaaaatgtt tcaggaagtg ttttggccac tggtaatcga ttaccagaga gtaaacctct 360  
tgtaaaaaca tttttgctta aattcatcgg ccanacttct tgggtgtttca acttggaata 420  
tccttttctaa atcactagag atcttcttga 450

<210> 31344  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31344

tttgcaagct tgtaaaaaag ctagaaggag ntatgtcttt tacatgccta actcccttga 60  
gtgacatttg tattgggttg tatcttgtgt gttgcatctt agtacatatc aaatttttat 120  
gcaccttca tcatcatagt aagtatgaag aanagtttct aagttagaaa ggtttcttca 180  
agaggcaaaa ctctctattt taatcgatta caagggtgtc ataatcgatt acaacaagtt 240  
gtttgaagct gggagagttg agtctcgtat cggcttaatc gattacagta gactcataat 300

cgagtacagc tgtcgttgag ataatgaatg atatattcaa gagtatttga tttaatccga 360  
 taccaagt 368

<210> 31345  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 31345

ctacggtgaa caagagacat atataaatga atgaccaatg tatttaatga aagttgaata 60  
 gtaaggccat gattggataa acttctctcc atgcgtacat atgggagaag aaattatgaa 120  
 gataaaatga attgagtttc tcttgtaagc ctaagttaat ttacatactt tgacttttag 180  
 agaatttaaa tgagattgct tttatagaag tacagtgcac gagttgattc taactcatag 240  
 gagatgctca atttaattta tcttcttatt ttcttcttct ataagcgctt atgaagaaat 300  
 ttatccaaac aagaaacctt ggcggtcaa aaaacatatt tgatatgatt gctgcaagat 360  
 accttgaatc aaaatgcatt ggtaaatt 387

<210> 31346  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31346

agcttgctgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60  
 tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120  
 tttgcacccc catttttact aagtacaccc cctctgctg ttttttggtg attctttttt 180  
 cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240  
 cggaaccttg cggattacat aatcatcccc tttttgactt acggaatgtt acggaacctc 300  
 acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacggatt 360  
 gtgcatcaat attttttttg gttnttcggc atgtcctgga atttcac 407

<210> 31347  
 <211> 445  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31347

cttcttttggga ccttgaacag gcaactaact cctcttttcag atccatgcta tgtgcccgcg 60  
actggtctctt ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc 120  
gaaatttggtt cgggccatac tcttccttgc gagccctctt ggtttcttgt tcaagggctc 180  
ttgcggtaaat tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg 240  
ccaacttgaa cttctccttg gcaagttttg cctttcctaa ctcgcttttg agagtttgga 300  
cttcttcgtc ctcttccggg gcttcaaaac tctcttcgct gacgactntt aacttggcga 360  
gccaatctaa acctcgata tgaaccttca gccattcgtg gtaccacca atgaggccat 420  
tacgaatgcc tctaagctct tgatc 445

<210> 31348

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31348

tttctgcggc atgcagcttt taaagcttgc gttgtatttt tatgttgtca aagcttaatt 60  
atcccataag ctccagctat tagtgtacgc taatgaatgg tttaatatct tttagaattc 120  
atntagatc ctattttagt gggtccttat acagtttagca atagtacttg acttaattgc 180  
caatataaat tggagtatta ggtaggttag ggacttaagt cattgtgtta taccacatct 240  
tattaatcat atattattgg ttaccatctg tttttcacat cttctaccta atccctataa 300  
cttccacatc atattnagta taattttcct cattcgttct tccccctttt aaagtcaaat 360  
tcacatgtag tgacctaaaga tcatgtcaaa atctc 395

<210> 31349

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31349

tttttttaaa aaaaataatg gtaaggaata cataagttga ttggttttta aaatagtata 60

ttgggggggaa gttacatata taaaaaatgg atattgcatg aaagaaactg aacatttgaa 120  
 aaaaaaaaaa gatgccccgg ggcattgggtc tgcattatac ttagagctat ctactttaac 180  
 aagagaattt attcaggaaa actgggggtga tgggtgtgca ttaagagaag gttcacaact 240  
 ttgtcattaa ttcaatcaca caggaacccc taactcgttg atcttcatta tcnncgttgt 300  
 c 301

<210> 31350  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31350

tctagcttgt tagacttgca attctcacac ctgtcaaggt tatctctcga cactggacaa 60  
 tacttgtcca tgcttaaggg cttgactgac tcgtcatcct cctacttgtc aaagttacta 120  
 cccccgacac gggacaatct cctttgacac tagacaacct ctttcgcttg ccagccggct 180  
 cagagctttg gatgcttatg tattgtccaa ggtccacaaa atacacatgt catgctacgt 240  
 gacactccaa gacacacgtc aaccctctat gtcagtcttg gcataagagc acagacgtct 300  
 aacccgtagt agctggctcc ccaacagaca gggtatctct aacctcttaa ttatttgaat 360  
 atattgncat ctccatatct cttggcacgt atacaaagct acacattatc 410

<210> 31351  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31351

ttgacttgag tcatcaagag attataaata cgtgaccatg tcatgaatnt caacaattat 60  
 caatcatctt tgaatcatct atctttcaat ctttttcaac atcatctctc atgcatcttt 120  
 caatatcttt caattcattt ctctttatct ttcaaaaaga ttttgttcaa aactgtctt 180  
 ttccaagaaa agttctttgt tcaaaaactt gtgctattca tctttttcat tctcttctcc 240  
 ctttgccaaa agaacgaagg acaaaccgct tggattcttt tgtgtctccc ttcttccttt 300  
 ccaagagaat tcaaaggacc ctgcctgaga attcttttga ttcttccctt acccttaage 360

aaaagattta gaaggactag ccgcctaaga tatctt 396

<210> 31352  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 31352

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120  
aaaatttcca atgaaagcaa aaaaggaaaa gaaggaaaat tccccaatca aagagtggga 180  
gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240  
aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaggaag aagaagaagg 300  
aaagaaagct cctgatcaag gatcgaaaga aaaca 335

<210> 31353  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31353

tgtagagggt aggattaagt gcaaaaataa tgacttatac ttangaatcc aagcctttgg 60  
ttttgagtgc cagaaagcat gaaaatgaga gcatgttggc taagattccc tttttaggcc 120  
aacacttggg ttgggctata ctgtgacatc ctggaaattt ctaccggaa ttttgtaagt 180  
gttacattta aataattata tgtattattc agggatatata tatattcttg gtagaagtat 240  
gtacattggg ggaaaaatac gcggggttaga ctaattaaca aagagtaatc cataactgga 300  
cagttataga ttaattcgca attaattagt ctaaaaatta tcattttgcg tgcgacttaa 360  
aatttaacaa aaccaacctc tggaccacgc tcanggtttc attctgagcc gtttgatata 420  
tatacata 428

<210> 31354  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31354

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 tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120  
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180  
 tattgctatg ctttttgcct aagagtact ctcatttcaa agagacttta ctatttggaa 240  
 gagactctgt ttctcttgat gaagtgcag ctgctctgaa tttaaaggaa ttgaatgaaa 300  
 gaaaggaaaa gaagtcctct ataagtgggt aagggtgac aacaagaggc angaccttca 360  
 agaaagatag taaatctgat aagaaga 387

<210> 31355  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31355

tccacaacat ccaagcaaaa caacattcaa acagcacaag ctatcacagt ctagcaaaac 60  
 agagcaaagg cagaaaactc tgctcaacac atcaacaaaa atcacagctt ttctactta 120  
 aagaccacag taacaattcc tttgatccaa ttcgttaacc gttggatcga ctccaaaatt 180  
 gtactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240  
 tccagaactc attctgtact actctttcca cagccaacca cacacaagca ttntctgcac 300  
 caagctaaaa tcctgtgca cctattgtga cagcaaaatt ctgcataagt gcagatttcg 360  
 aacatcacac ttccnctcat ccaatcttgc tcanatcaca tcctacaagt cccaaatcat 420  
 gtatcanaca tgtctaaacc aaagccaagc 450

<210> 31356  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31356

agctttatga gttgaggtgt agagctttgg ttcccttaat ttgatgactt cagcatttgt 60  
 agtctccata gcatggtaaa cacatgaagc acactatgct gagacaaatt caataatcct 120

aagtacttta ttaaacadat gtattttgtt tttttgatgg tgaacttgat atttaacata 180  
 gggtaagggg acctgtcccc ttgtgcttta agtaaaggaa aatgaccctt taagaaaaga 240  
 tggagttgaa ttaaaaccgt ttgacaatca tccaaactgt ccaaattcat agaactggca 300  
 gaaattgggt gtggatgtgc acatgttngt gtaggtgtgt ttgtgggtgat aatatataac 360  
 tctaggcatg tgagcttcga gaattatcca aacatagaaa acatagtcac tatgtcctta 420  
 tcatca 426

<210> 31357  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31357

gaagctntag tgcaatgtag agggatcaag agcagcggtta gatggaaaga gcttgattat 60  
 aacttatgag gaagatagga agcttaatta aaaactatgt ccttggcaag taaggcttgt 120  
 cttcttccaa gtcatacat atattatttg gttaaagtc acttttgtct ctaaagtgt 180  
 aattcgctga caaatgcgtt ttttaaagat aaaaatacaa aatttagttc tcgaaagtga 240  
 aaaaagtgca ataaatatat tcgactgtta acttgtctgt taccattaaa aaaataacct 300  
 acgtgacata taggaacgaa tntatcactg aaatgggtgt caacatgggc atctctaatt 360  
 accaacataa ggatatattn gtcataat attttcttga cttttcgtct tttcactctc 420  
 tangaatang aatacgataa atagtcactt ttatt 455

<210> 31358  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31358

agctttttca atgtatgtta tgcaaacttc cctgtttccc aagtctcttt aaaaagaggt 60  
 tgatagggct tgctgtcatt ttatttgggg tcatgataat tgttgatcct ccatctccca 120  
 ttagacgaca tgtgaagtgg aaaatgatcc gcacganaaa atctagtcaa atgacgtcta 180  
 acgcaataaa ggaaattgca tataggattg taagtaactt tcattcgtca gtgggtcattn 240

tttataataa ttcttggatc agtaaaccac atntgtttca tctattgact acagaattcc 300  
 ctggaaaagc aacctcata gggaatcttt attgcccacg ggcacaaaga tgtattgctt 360  
 gtttccattg ggcaacacaa gcacctagc catgttcgtg attctagagc acggtgtacg 420  
 atcaaac 427

<210> 31359  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31359

tnccatagtt ctgaataaat cttctatagt agcttgaaat ttctatatat tctcttaatt 60  
 ctttgactgt ctcaggcttt ggccactgtt ggattgcctt aattttatca agatctggat 120  
 gcaccccttt gacagaaatc aaatgtccca agtaattgat ttgggttggt ccaaagctgc 180  
 attttttgta gttgaatgcc aagttgcgtt cttgtagtat ttgtagtgta gtgtgcatgc 240  
 attgaatgtg ttctgacct gtcttggtat agactaagat gtcacaaag aaaacacaaa 300  
 tgaacttcct aagggtgctc ctgaaaatat cattcatcag attttgaaat gtggctgggtg 360  
 cattgctaag tctaaaaggt aacacaaccc attcatagtg cccactatgg gttctaaagg 420  
 cacgtttatg aatgtcttcc tctaccattc tg 452

<210> 31360  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31360

agcttggttg agataattta aaatttaagg aganaaatag gaaactaaga ttctaattag 60  
 tgtggtacaa aataaaaaaa gtgaaattat ttgaaagatt acaagtataa gaaaatttgt 120  
 ggccaatgat caaaggaggg tgaaggcggg cgagtggcga gtgaactcag tgggttagaa 180  
 aatagaattg ggttttggat tgggttgctg ntctgtttat ctactctcct cttgttcatt 240  
 tcacgcctc tcagccacct ccccttcgct cctctctctc tctctctctc gcgcgacta 300  
 caatcaaagt catgaaagca ttntgttcat agaagaanga aattcctctt cctattagaa 360



tacnggtntt ttccattca attcaatcat gcttccggca ctgtctcaat tc 412

<210> 31361  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31361

tatgaaaatt tctttataag gatgaagctg gctgctgttg ttttctacat agtacatagt 60  
 taagtcatga cacaaagaag tagtttggtc ttgtttaatc tccctttatt tcatcaccaa 120  
 gagaataatg tcaactccctt taccgttgaa cagaagttgt gattgaataa taggctacca 180  
 tggcgctaata tgtgtaaatt ttaaaatctt cttcttaata caaagtcacg tgattggtca 240  
 gaattatcaa tatatctttt tccctcaagt ttaagagtta ctaatctaga tcaaccttac 300  
 aattagatgc ccttccttat ctttgtaagt atccacaaat tctctgatca atattcaant 360  
 agttggtagc tggatattaa attctctcga taagtctcat gttctattt 409

<210> 31362  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31362

agcttttctc tgaanactta ctaaaataag ctacaaaaac agcttttttt tataagtttc 60  
 tctgtgaagc gtattgaaat aacttacaaa gagtttatag gaaggtcata agactaaata 120  
 agctcttcca aacaaccctt aagtctcca aagcttaagc tgctagatga cagctcatga 180  
 atgattttat atctagcaga cctaattaga aatttcttag actttgaaca caactacaaa 240  
 cttcaatata tagagactga atagaaaatt tcaagacagt caagggacct gtagataaat 300  
 taaatcaaaa tataaagaca aggttataaa attaaccaat tgggctagaa tcatctt 357

<210> 31363  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 31363

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atttgtcatc ttgtgacagg gacaagattg ttttaagcaa tgggtcaaata ccgcgccaaa 120  
tccaagacag agatgggtcg aggttaagtgg taacgtgacc aagatttgct gcgcaatgct 180  
atthttctgct ttcaagtact tgnngacggn gacgaatgga tgctaggccc atgatcaaca 240  
gatcgctatc ctacgtccaa ctccggacaa tcgagaagcg ctacagggag gcagcctagt 300  
atcctttaaa ttcctacata ttattattgt tgtttcttta agatgataat cggatgccta 360  
acttaccag ggggtttgag taagcgaaca ccaacctata gaaagcgcgt actttctttt 420  
gcaaaaaaaaa cgagggga 438

<210> 31364

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31364

agcttatata ataatttttt aacttgaaat aaccctaagc cataaaagcg ctagagcctt 60  
tatttttaat ttttattata tcttatcata gtttatataa aattttgatt aatcgattaa 120  
atttaaaggc taagaaaaga ggtaagatta attttttaag aaaaaaatg gattttgggt 180  
acattntact attttaatta gtatatthta aataaaagag gctttaaaat gatttaatca 240  
ttatgatata aaaatgaaga catagactat gtttggttta gttagtthtt aactthtttt 300  
actagctgan aaaatttagt tgattatttg ataatgaag tctcaatgth atactcaaat 360  
tagttagaat gggatgagta ggtttagaat thtcaattcg taagaaattg taac 414

<210> 31365

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31365

gccctctctt ccttcgcag cttgagthca ctattgctac cccatagaag ctcgcgaaat 60  
ttattccggc cctactcttc cttgcgaacc ctcttggtct cttgthcaag ggctctcgcg 120

gtaattgcat ttctctcccc gaaccgggca cactccttnc gaatgtgtgt agcggccaac 180  
 ttgaacttct ccttggcaag tttcgctttt cctaactcgc ttttgagagc ttggacttct 240  
 tcgtgctctt cgggtgcttc aaaactctct tcgctgacga cttttaactt ggcgagccaa 300  
 tctaaaccct cgatatgaac tttcagccat tcgtggtacc caccaatgat g 351

<210> 31366  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31366

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 tttaatagta agaatatntg cttattagtc tggagatgga tcatggtaca ctaacatgct 120  
 tttatttagt acctttctgc acataaaaag tgcccaattt tgtatgcttt gtcctggagt 180  
 gacgaacaag attgtgagag agactgtact aagggtgtca cagtagatct ttggagtctg 240  
 aaaaaactca gaagagattg aatccatagg atttcagctt cagtactcag cctcagtgct 300  
 ggactggggc actaaattct gtttcttggg ccaccacaaa attaaattgg ngtcaagata 360  
 tatacaagca cctaaagtgg acatcttctc attcatctat atat 404

<210> 31367  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31367

tgtctcctat gcagtgcac tatcctcaga atataaaatt tggtgtgaca gatccaaatg 60  
 caaaggaact tgcgaacccc accactccaa acacaatctc cacaccattg ctgaaaactc 120  
 atactacaag aaaatatgat ttgtagattc tccacaccat tgctgaaaac tcacactaca 180  
 tagagtttcc gaggttgaa taacattcct acgagccaaa ttctatttag agggaatgtg 240  
 atcctaaagc gctttccatg caaagccttg aatctttaaa gcattctctc cacctccaat 300  
 cctcccccac accacccttc ctccaaagac acatctnctt caccgaaact tgcttatcta 360  
 tagccacatc aaataatcga ggataactca ataccaatgt cgcctcacc acccaatgat 420

ccctncagaa taatactact ttacctaatt cat

453

<210> 31368

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31368

agcttttgggtt atggatcact gtatgggttc cttgaacctc agtctataca caacgtaaag 60

aacaaacgtg aagaatgtca acattacatt caaacatggg tcacagaatc acaacgagaa 120

gtgtacttgg gagcttacct gaatcaataa gttgaattga tgttgtacaa tatggatatt 180

atgtgcatta ttgggtgccta actaatgttt ntcgtcttca gggcacattg gcaacttggt 240

gttctgtgtc cacgggacaa tattgttggt tggtttgggt ctttgcataa gaagcttgat 300

gttaacatca agactgcagt gaacaagtta gttttaacat tataaagtca atattgtata 360

gaaatcgtag cgtataaaca caatgattat ttgatata tg 402

<210> 31369

<211> 368

<212> DNA

<213> Glycine max

<400> 31369

gaaatgggca gcaaagaaca aacacacatc acagaagaat aggccacaac cattaacctg 60

cgctaaaagc cattcaaagc atggcatttt gatattcctt ggtaaaactaa gaacctgaaa 120

aatacaatag aaacatgggc accgagagac atctatcaca atagcatata agtatacctt 180

gaatgattaa caattctctt gactttcact taaataacat actcaatttg catgatccac 240

ttcttcaatc cttttaatta gcattaacaa ctatagcttt agaatcatta acaatcctct 300

tgactcttac ttagatgaca ttattcgaaa ctacatgaca ctccgagcac acatccaagg 360

atattttc 368

<210> 31370

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31370

agctttataa tttgaattaa aacgttcaga aacttctggt aatcgattac acagtgcaaa 60

ttntgaattc aaattttaat agctgttgta aatcagtttt ggccactggt aattgattac 120

atcctctggt aatcgattac cagagagtaa atttgttgaa aaagactttt taacttaaat 180

ttcttggcca aaccttttgc tacttcaatt ggaattccct tcctatataa tatacccttt 240

ctaagactct agagactgtc ttgatcatcc atcttgaata tctctaattt ctttgtcttg 300

aataaagctt tgagacacat gtgaaacttt ggcatcatca aaacattcag ctngatcctt 360

tgtctactat ctcccccttt ntgatgatga caatccctga aatca 405

<210> 31371

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31371

tgcaattgac ataaagggac gtcccanaat gactggtacc tcatggtctt cctccagatc 60

catgaccaca aaatcagctg gaaagacctt cactttttatc aaaacattct caattacccc 120

ggaaggtctt gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc 180

caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaata 240

aatgagagtc tttctgatgt gccatcatth tcttctatth cttaaaccct ttntgcacca 300

ttttaattac tgattagtct taattgtcaa attaattaag cagttttatt atttgggcac 360

attgagctaa tttgatgttt ntaatctaata ttcatgaatt aatgaaacat tgggcttaat 420

ctgga 425

<210> 31372

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31372

agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccttctcata 60

actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc ttgagcttag 120

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
 tacacacccc ctataatagc taagctcacc cccatgacaa anaaacatga aaatacaaaa 240  
 aaaaagtcct tactacaaag actactcaaa atgccctgaa atacaaggct aaaaccctat 300  
 actactagaa tggccaaaat acaaggcccg gatgaaggaa atacttattc taatatttac 360  
 aaagataagc gggctcatac ttagcccatg ggctcgaaat cta 403

<210> 31373  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31373

ntgatgggtg cgagaagaaa tcacatgtct gtcacatctc tataagggga gaatgtgaat 60  
 gtatgtatac atgattttga tgatgtcaaa gaagaattta acaaggctgc ttcaaattgat 120  
 aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt ggttcaagat 180  
 tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctctggg 240  
 aatcgattac caggaagtgt aatcgattac cagaagacag ggttgagaaa tagcagttga 300  
 aaaagggttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360  
 ctagcaacgg aactttggaa attcanattc aaaagtca 398

<210> 31374  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31374

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 cggagcccca tgaattgatt gcctaacgct gttcatgcat ccttcatcat caaatcttat 120  
 tcggagcccc atgaattgat tgtcgttcat gcatcctcca ccattcagtc cggagcctta 180  
 cgaatagact gccaaagctct gttcatgaat cctctatcat caaatcttat tcgaagcccc 240  
 atgaattgat taccattcat gcatcctcca ccattgagtc cggagcccca cgaattgatt 300  
 gcctagtgtt gttcgtgcat cctccaccat cttattcaga gccgcatgaa tngattgtcg 360

tccatgca

368

<210> 31375  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31375

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cgatcatcgt ctccctttcc attattgggg gtaccacctg ggccgccaga tccctccacc 120  
ttttgggcgt gttctttgaa agatccgtcc ccctttttgc acatgttctg tagttgcac 180  
ctattcagaa ccatatcaaa tttgtactga tactgcctaa cacaggcaac cattangtcc 240  
ttccaagaat ggactcaaga aggttactaa gttagtatac cangcgacag ttgtcctagt 300  
aagaccttct caggaaaaat gtatcagcag tttctcatct tttgtgtatg ccccatctt 360  
ccgacagtac atcttttagat ggttcttgga gcgagtaagt cccttatact tgccaaagtc 420  
cggcaccttg aacttgggaa tgaccatg 448

<210> 31376  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31376

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ggctcaagga taaaatggat gcccacatt atttccatga cacaaaaatg caaaatgat 120  
gatttggaaa ctttatgcaa aactgggtcat gcatgcacct atgcggacac tcgagtgtca 180  
aatttttatg gtcatgtgat gctatggctc atgattcatt tcctctatct tattcaaccc 240  
aatgctttca aaatatgttc ttttatcaat ttgtgcattc atccgagtcc attttgggcg 300  
tctgggacat tcttacagca ttcacccttc aagtgtatac acattttttc taaaact 357

<210> 31377  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 31377

gaagcatgtg taacacttgt tggaactttg atgaatgaga atcttgtgag acacaactcc 60

aagttcaact tctcttcatt tttcttcctt caatttcgtg ctccccactc tctctttctc 120

ttactctttc ttttctcca ttgaagcacc ctctccaagc ttcttatcca ggctcatcat 180

ggtggaggag ctcttcttc catggcttat tccctagtgg atggagcctc ctctcaccta 240

ttctactttg tctttcgtg catctccatg gtggaaaac accattgaat gacctcattg 300

aagctcaatg atccagcctc cat 323

<210> 31378

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31378

cttgtgtaat cgattacact ganttggttaa tcgattacaa gtgatagttt ctgaacaaat 60

caaaagatgt aactcttcaa atagtttttg actttttcaa attggtttta aggttttcta 120

aaagtcataa ctcttctaata ggttctcttg accagacatg aagagtctat aaaagcaagg 180

ttttgctttg catttcaagt atctttccaa ttcatctttt tgacaacaaa cttttgccaa 240

ttgatttatg aatctctttg aacttcttct tcttcttctt tttgccaaaa gctttccaaa 300

gttttctggg ttttccaaac cttgaaaact tgtgatattc atctttttca ttctcttacc 360

cctttgccaa anagaattcg caagggacta accgctgaa ttctttntgt gtctctcttc 420

tcccttttc 429

<210> 31379

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31379

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gttttctctg tttccttagc agcttttgct ttttatgacg tccttcttca gcatgatcat 120

ttctctctc tttcgtgat tccaatctat tcttcttgg ttccaaggcc tattgtagcc 180





caactcaaaaa gtggtttatc accttgccca cacttgagcg ttgcttgtcc tgaagcaagt 360  
gttctagttc tttaatcaaa acaattatcc taaatcagaa ctcatgtatc tganatctcc 420  
atttattcan atgtanaact cacatta 447

<210> 31382  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31382

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gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
ctggatcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggg catgtgatgc 180  
tagggctcag gattcatttc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240  
ttatcaattt gtgcattcat ccgagtccat tttgggcgtc cgggaaaatt ttcacagcat 300  
tcacccttca ggtgtagaca cttttttcaa aaaccagtta tgatcagtga atntttttca 360  
nagaanagct ggaagttatc tcttttcaaa agcatgttgg ttnttcagct agacaactta 420  
tttgctnttt tctccttc 438

<210> 31383  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31383

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ctgccctaaa aaatctttgt tttctctctt cttctatatt cttcccatc tactcatttt 120  
ttctcttctt tccctatcac ctacacttga catggcagta taacacccca aactttttta 180  
cccatgtta tagaatcatc aaatatacat atccacaaaa gaagtacaaa catagacatc 240  
atactcaagc ttactttctc ttatgtaacc atggatttct ttccctaaat taaagcaacc 300  
caatcaaagc actgcttgta gagcactagt tattgaacat gaatccagca ggtggaaatg 360  
agatagaagt ggaaaaaggt ggattcaaca gtctttttaa ttaaatagat gacactaaga 420

tggcacatga

430

<210> 31384  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31384

tagaaannaat ggggtgaacat atgacatcnt tcttatatatt tatctcaatt tctctcttgg 60  
 ttcttgttaa gattatatat atatacacgg acttactcca ctcaatgcc aatgtctatct 120  
 ttaatgttta aatttagagt tgatctcttt tctcaatttt tcaattaaaa ttacatcaaa 180  
 gaagtcatat atttagagat aatacattgt ttattcttga taaggatggt caaaactaat 240  
 tacacaagtg aggactaaaa attgagtcct gatacaaatt tatccttgta cagaagtctt 300  
 tagtatcatc tctaattgatt ctcaaactat taattatctc atcatttatg tcttgtataa 360  
 ttcagatata agtcatgtaa atatatttct ttgtcaaagc tttccataat acttatctca 420  
 aactccatc aaatatt 437

<210> 31385  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31385

tatgaaataa aagtatcgat atatgtgcat gtacacaatg ctgcatcgga aatttttagaa 60  
 agaaggaaaa aaaatcaaca agattgaaag gccaatatat caagtgcaa agaaagtgt 120  
 gccacataat ttttatgcgt tcaactctata aagtgttagga atttgagata tcatgacaaa 180  
 aaagatatat gtaaatttaa aaattaaaag gattgggaaa gaggaaaaat aaaaattcta 240  
 ctaagggtta tacaacaag agaaactcta tcaattcatg ctaattagaa gaaaaaaccc 300  
 aatttttagg gttcacactc aacataggaa cacatcaatt tcacaacaaa ttcgtatcga 360  
 gacaccaatt agtctgtcaa acacagtcaa tccacaatta anaacataag aacataattg 420  
 aatntcataa aacaacccaa gtg 443

<210> 31386

<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31386

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg caatcagaat 60  
tgccattcct tggattatag ggttgaaccg agctcatgct tttacaaaaa ggttcatcaa 120  
gtcaggttga aatatggaag taaccatcct gcaaacttgg ggcaaaagat gaatcgagtc 180  
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240  
agtttcacct tgacaaagat gtcatggacc atgttgaaaa tctaaattga ttcaacccca 300  
tatcctgctg aaaaattcgc aatacttcta catcattcgc atgcatccat gcttttcatt 360  
ggttgcattg ctcatcgcat tctcttcttg aaaaataaaa taaaatgaac ttatcaaaaa 420  
aaanaaaaaa aacaaaaaaa 440

<210> 31387  
<211> 414  
<212> DNA  
<213> Glycine max  
<400> 31387

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aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180  
catgaaggag aacatgtggt tttgaagggt tctcccgtaa ccggagtcgg aagagctctt 240  
aatgctagga agttgacacc caagtatcta ggtccatatc aaattttgaa gaagattggg 300  
cctgtagctt atcatatcgc cttacctcg agtttatcga atctgcatcc tgtgtttcat 360  
gtctctcaac tgagacggta caaccagat ccatcacata tacttgagc ggac 414

<210> 31388  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31388

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 tgtaaattta gagcaaactc atacaccaat gcacgtgttt ttctgggaca tacatttatg 180  
 aacatacatg catgcaagat attttgctac ctatcttcac atatatgtgt ttccaaagca 240  
 ttttcgctaa atttacatac atgcatactc aaggatatttt gggctacgaa aaattacata 300  
 catgcatatt caaggatatnt ttgctaccaa aaattacata tatgaatatc caaggatatt 360  
 ttgctaccan aacattacat tntatgcata ttcanggtat tnttgctacc aaaaattaca 420  
 tacatgcata 430

<210> 31389  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31389

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 ttttgtaggt ggagctgaga ttgaggagga ggaactaaca gatttgagga caaatcatct 180  
 tcaaggggaa ggggatgatg caatcctccc taggaaggga ccagtcacta taaccatgag 240  
 caagaggctc caagaagatt gggctagagc tgctgaagaa agccctatgg ttctcatgaa 300  
 cctcagggtg gatttctgag cccatgggcc aaggctgagt ccaattatct ttgtacatat 360  
 tagactanga tgtcattata tttggtcctt gtatttangg ctccatattc tangtagggg 420  
 accctataaa tatac 435

<210> 31390  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31390

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agaaagctag cagatgggcc taaaagaaat gctataactt ggcaaggata cgacataaac 180  
 aagtattcat ttacacaaa tgaacaagat gacaaaggca caatgcanaa tagcagggtc 240  
 atcctaaggg ctgaatctca acactttgca agtgtgcatg atgccaatcc ctgtgtagct 300  
 gtcacccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360  
 atctgtgttt tcaaagttaa atgggttgac agtaacaccg gtgtgtgcac cgatgatata 420  
 ngatntatgt tg 432

<210> 31391  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31391

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 ntcaatgtcg agcatctcga catattatgc gctcgaatcg aacatccgag tgaaaagata 120  
 tgaccatttg agtttctcga gagcttccgt ggttcaattc cgagcatctc gacatattat 180  
 gtgcccgaat ctgaccttcg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc 240  
 gatgtttaat ttcgagcgtc tcaatatatt gtaagcctga atcggagctc agtgtgaaaa 300  
 gttatgacca tttgtatttc tcgacagctt ccttgggttca attccgagcg tctcgacata 360  
 ttatgtgccc gaatctgacc ttcgtgtgaa aagttatgac catatgaatt tctcgagagc 420

<210> 31392  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <400> 31392

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 ttgggtatgcg ttttatgttc attgggtgaat ctgattgtgg cgtttatattg tgttatgttg 180  
 tggaacaatt acgtcgtcag catcgagaaa atcactgacg acggcggcac atgtcgaaga 240  
 gtgacaagag gagccatggg atgggagact ccaggaggag ggagacaaag ttttgatgtg 300  
 ggaaggtgca caataaaatt atgcacatag attaattctga aagccaatga tagtgatcca 360

caaagatcac ttaccctcat ggtccacctt agacgcagtt tttttttttt ttttttggag 420  
tcctcacttt tcatattatg c 441

<210> 31393  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31393

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agaatggaga aggagaaaga tgaatggaga cgccacttca agtagaagat gagtctagaa 120  
aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180  
gggacaggaa aagaagagca cgaaatttag tgcctctaaa gaagtctgaa ctttgaagtt 240  
taatttctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300  
aagtgtcaca caaaattaga gggaaatttg aatttctatt caaatttcac ttaaatntgt 360  
ggagccaaat tttggagcca aaatttcact aattatgatt agtgaatntt agttatggtt 420  
cagcccacta atccaagatc aagtc 445

<210> 31394  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31394

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taacaaaaag aaataaaaaa atagaagaat ggtgggggtg ctatggaaga agatcaaggc 180  
aaaggtgagg aaggaatagt tatatatggc atgtgtgaaa caaaggtaaa gtgtgagaat 240  
gaaggtaaga agtgagagaa gtcacaaact atagaggtn ttttaatttca ctccaaagaa 300  
ctatgcatgc ttcatgacac aacctttctt taagtatgag tagggttaga ttgagcccaa 360  
gattaaagca ttgtcttann aaatgtattg tttggtttaa tgggaaacta gtctgatgaa 420  
taatctanat actct 435





<223> unsure at all n locations  
<400> 31397

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aatatgatag gttgctgctt gatgtgagct ttaacttttt ctagaagcta ttgactacta 120  
ttagttgaat taagtagtgt gttatgttgg ttgaagataa ataaaatgat attgggtttg 180  
taatgcagct ggaagatcct agcattgaca ttcacaagga agggaaatac ttgatgcttg 240  
ctgttcagga gctgggttca ggggatcaat gtgaacgaag gtttgtattt ggccgcgaaa 300  
gccggaagcc taaggcctcc aatgatgaaa acaaatttac gaaagatgga acatatccca 360  
agagcttgct gcagacactg ttgatgagag cagggcactc cccaccanaa tacaaaacga 420  
aaca 424

<210> 31398  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31398

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acaaacgggt aggattaata cctgtttatt agggatgggt tcgagatgga tatttactga 120  
caaaaaatta atggggatgg gttcaggtat ggggtactata gtaccgatcc catctcacct 180  
catcatgccc ctatgatata tattagtttg attaaaatat cttttatata ttactaatta 240  
ttaatttaat ggcaattgggt aggcaaccta acctttgttg atgcacataa atttgtcatg 300  
cctttatgtg aattatggat caatacattt ggaacgcac gtagattgaa tgagaactgg 360  
ttttgaaact taaggtaatg cacaaaatat catgtaaatt taccctaata acattntttt 420  
aatgcttaat aaaatc 436

<210> 31399  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31399

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 agcactatat cctcccatcc gagagccgac catgtctcac atcacagtga ctaaagactc 180  
 tcaagtcatg acagtggacg aagggtctca naactgagcc ctaaccatct gccaatccac 240  
 ccacgacgag tgacatgtgc tcacgagcac cccactaagc ctccaatacg tgccacccat 300  
 ggcatatttg cacgagcata ttgctatgtc tccagcatat gtcacccacg gcaagtgaca 360  
 tatatgcana agcatactac taagccttca gtacgtgcc cctgcggcat gtgcgcacga 420  
 gcactctgct aagtctc 437

<210> 31400  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31400

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 tgggttacca agttaaccaa tgcattcagt tttccttcaa gcttcttagt ttcagatgat 180  
 gcagctgagt ttgtagctac ctcatgcact cctctaataga ctatagcatc atttctggcg 240  
 ctaaacttct gggagttgga agccatcttc tcaattaaat ttctgacttc agcaggagtc 300  
 atgtctccaa gggctccacc actggcagca tctatcatat ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaactggca 420  
 catagttntt aaatctctcc cagta 445

<210> 31401  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31401

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 tgccctcaggc ggtgccggat atgatcctct aacagctgaa ttagtggtac ataaccatat 120  
 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180

<210>	31402
<211>	440
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31402
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gcttatattg	gttaaaatgg	accattcaaa	gcataaaatc	aacatataaa	tttatcgctt	120
ttgcaagaac	tacgtaggta	tgattttctc	atcacaattg	aggatacgta	ggagcaaaag	180
ccccactttt	gtcgaccacc	ccaagagatc	gttaattatc	caacgcctta	acgctttctt	240
catttcaaaa	atcaagagat	cattaatggt	ccaacgcctt	aatgtttctc	tcctttcaaa	300
accaagaaat	tgттаatggt	ccaaacgcct	taacgtttct	ctccttttca	aaaatcaaaa	360
gatcgtttaa	aagggtccaat	gccttanacg	acttttgttc	ggttaaaaata	tatcttgcga	420
nnaaacataa	aaacaactta					440

<210>	31403
<211>	448
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31403
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atgcacccat	atacaatcaa	ggtagcttcc	ttacctagat	tatttacatg	tactttccaaa	120
gtgtatttgt	tatttacatc	atacacgcc a	tcttgtcaaa	atttacacac	atgcatactc	180
aaagcatttc	ggggtaccaa	aaattgcaca	tgcgctcatc	ttgggtatttc	taatatctat	240
acatatataa	acttcatgat	gaatcttgac	tatctacaca	ataaagtget	acatttcatg	300



agtttgacgc aacac

435

<210> 31406  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31406

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tagcatcatt ttggcactaa actattggga gttggaagtc atcttctcaa ttaaattcct 120  
agcttcaaca ggggtcatgt ctctaggac tccaccacta gcagcatcta tcatacttct 180  
ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggtgg 240  
tgagggaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300  
ctgagttgcc taatgcctga aatatccttt ttgatggtcg tggctctgga ggcagagaan 360  
atTTTTtcta agaatactct cttgaggtca tcccagctcg cgatggacct tggagcaagg 420  
taatatagtc agt 433

<210> 31407  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31407

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ttgtggccac gatgatattt ttcatcacia ttaaagcaaa ggccacgttc gcgacacagg 180  
gtatctcctc ggaggataat cttttaacag gcactggggg tgatggtttt aaagggttga 240  
gcancgagga cgagggaag gaaagggtgg acgaagaagg agctgaggca tgtggaaaaa 300  
aattgtgagc aggaatggcg ttgggacgac cacggaaggg ccgacgagtg tcaagaaact 360  
tctcttcta gagccaagct aaccccgccg cttgaccaat gtcaac 406

<210> 31408  
<211> 229

<212> DNA  
<213> Glycine max

<400> 31408

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ccagaatcaa gatcaagatt cccgaatgaa gaaaagactc cttcagatca gtttagaagt 120  
ttttcaaact ttgaatagca catgagtttt gacaaacctt taccaagagg tttactcttg 180  
gtatcgatac atcttgtgta tcgatatcag tagcaaatga gttgaaaag 229

<210> 31409  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31409

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acctggagat atgtcgcggg ggtcaggaga ccttggggac atcaggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca ccccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aaacaggcga gtccttgga gtcaacagat aaaaggaaca aagaccacaa 240  
agcaaagagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttgtggc 300  
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaat tgaagacaga 360  
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac cangcttgaa 420  
aac 423

<210> 31410  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 31410

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gagagtaaaa actctttggt aaaaggattt gagaaaaatt catgtgctac tcagcttttg 120  
aaaaaacatt ttcatactta tcttgattaa gccttctctt gattcttgaa tcttgagtct 180  
tgaatcttga tctcgattct tggaagcttg aaccttgaat cttgattctt gattcttgaa 240



cttgagtttt atgccaatgc ttggccaaca gagggggggg tgcgtgacat g 411

<210> 31413  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31413

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 ctcaaaaactc atctttctcc ttgaaactcc gccaacctca gtgtttttaa ggctcttgga 180  
 ctcttcagct tccgaaagct cgctgagcga gcatggctcg ctaagcgaga gttagtgaat 240  
 tttcgcttaa cgagagtggg cgcgctgagc gcgagaagag acaacatgct cgttgggcag 300  
 gctggcttca cgctggacaa gcacatctct gacttatcat cttctanggt ttcccaatca 360  
 actaagcgag ttggatgcct tgcaaagcgg atgcatctcg ctgagtggat ntacctctct 420  
 aagcgagtca tcagct 436

<210> 31414  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31414

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 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccagc 180  
 taagcatatt ttgcaatggg ctaaggccta aaactaagat gattctggat gcagtcgcta 240  
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300  
 caactgatca ccaatctcag cataacagac aatcgataca gaaaagagga gtgttggaatc 360  
 tcattctcaa gggtttttca aaggaagtgt aaaaacattn tgttgtggta cctataacac 420  
 aagagacgct gagagaagct c 441

<210> 31415



<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31415

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tttgcaggtg gagttgatat tgaggaggag gaactaacag atttgaggtc aaatcctctt 180  
caaggggaag gggatgatgc aatcctccct atgaagggac cagtcactag agccatgagc 240  
aagagactcc aagaggattg ggctagagct gctgaagaag gccctagggt tctcatgaac 300  
ctcacggtag atttctgagc ccatagacca aggttggtgc caattgtctt tgtacatatt 360  
agactangat gtcattatat ttgatccttg tatttanggc tccataatgt angtagggta 420  
ccctagaaat at 432

<210> 31416  
<211> 439  
<212> DNA  
<213> Glycine max  
<400> 31416

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caagtgcggt tgatggtata gcaattgaca tgcagagaaa atccgagtct tctgagtgt 180  
aaagagagaa gtttcgtgaa tatgagcatc aatgtcgtga gaagatttca attgatgatg 240  
ttcagcctca ttgtgaaaag gtggatgcac atttggaagt tcagaaggag acggatgctg 300  
ctcctttact tgactgtaaa gagacgcagc agggatctgt tgattggaaa attgatgaga 360  
gaccgattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420  
ttctgtctgg ttgtctatc 439

<210> 31417  
<211> 318  
<212> DNA  
<213> Glycine max  
<400> 31417

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 actttgagag aaaataacaa ggcctttcat ttatgcattt gataacaaat aaaatagagt 120  
 ttgtatttat aaataataaa aataaatcaa ataacacgtt gtgagtactc taggtataaa 180  
 tagcgatatg ctaggctaga cggtagctct tacgattgtt catcctttct attgtgtcct 240  
 tcctctcctc ctgctcagga tcccttctct atcctgcaac ccaccatacc tatcttagac 300  
 aatctacgat ctgggact 318

<210> 31418  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31418

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 tactgaggca tcatcgcagg tataccttgt ggaccgaacc cagtcacttg gaacggaagg 120  
 taccttggaattgtgtg actacagctg ctactactat cataaggaag cattcgcaag 180  
 cttggtgatg aacatgattg aaattgtgcc ataacatcat catcatagac atttattgga 240  
 agagagtagc tggggggagg atcatgtatc tcatccgttt ttgtctgtgg aataagctgg 300  
 gataggggat ttttagactg ctaaacacaa aagttatgta ataaataaat aaacaatgag 360  
 cccaaaatag atggaccaga anatgctcta agagaattnt aactccttga aggagaaaga 420  
 tgaataagaa tatc 434

<210> 31419  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <400> 31419

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 gtacgcatat gtaattagga gcacaatcga ttctaactca caaaaaaaaa actagcgggt 180  
 gtgttaccba aaatcccata ttcttccat ccaaacagca ataattattct ccaaagcaaa 240

ataacattag tcgtccttaa attatattct attaatcaaa gattaaaatt gagtatgcgg 300  
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<210> 31420  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31420

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 ttcaaattag ggactatact aattatttca actgttggtt tcatatgggtg ttgattttgt 180  
 gcatgttaat ctgcctcatg aaattttgtt attcatcggt gtatcagcat gacaatgaaa 240  
 acactattat tgtgttgctg accaatgcc acaattaaaga gggccaccct gtactatgat 300  
 atatagttac ttatgttggc tttctttcac aacaaatatg ttgttttatt gttttattnt 360  
 ctatgtagct ggttggttat tcatgttttt tcttggtatg gattttcttca actggagagg 420  
 agtttttctt acataca 437

<210> 31421  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31421

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 tgatgatgga tggctcaaat tctcaciaag gttaaactcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag atgagaatca aggatttcaa gtcacaacat gccaaaaact 240  
 tttattttca aaacaattac ccattttctg aacatattcct ataattcaaa gaaaaacatg 300  
 caaagtcgta catgcacaca aaattgacct aaaatattaa actaacaatc cgacgaaact 360  
 aacaacatta acaaatattc aaaaccaaca aaactagcaa aaccaagaa cccccccnc 420

cccccccat acttaa

436

<210> 31422  
<211> 420  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31422

ntattcaaga caaagaaatt taagatattc aagatggatg atcaagacag tctctagagt 60  
cttaggaagg gtatattaaa taggaagggg attcctaact gaagtagcaa aaggtttggc 120  
caagtaattt aagttaaaaa gtgtttttca agagatttac tctctggtaa tcgattacca 180  
taggatgtaa tcgattacca gtggccaaaa atgatttaca acagctatta aaatttgaat 240  
tcaaaatttg caccatgtaa tcgattacac atatatggta atcgattacc agcagttatt 300  
gaacgtttta attcaaattt taaagcttgt aatcgattac acacatactg taatcaatta 360  
ccagagaaga ttttcaaaaa atattctcaa cagtcacatc ttttcattnt gttcttgaat 420

<210> 31423  
<211> 501  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31423

cggcgcgcg nnttganacc gtagctactt cgcacaccat agaacactca accctgtacg 60  
cctangatct tcttcatcaa tggantccct tgcttttcgg attatcaatg gcagnngaatt 120  
ggcgaacgta cagagagagg agactccact tccccgacac gatgagtata aaagaagctc 180  
atctccatac gacgccatgg atccgacctt ggacgattat cgatatgaat gcagcggata 240  
gatagacgag cagcaccctt tgtgtttaca ggagccctgt atctgtagaa atctnctctg 300  
atcatctctg aaaaaaatac acacacatga cctctattta tctcctaagt gtcacacgaa 360  
atcgcatgta tattcatatc acacttgtat ttacattga attctgggaa ctcaactctg 420  
gagctcacat ctggctgatt atgatcaccg acatttaatg ttgtgtcacc tcaactaatgc 480  
cagaccccat accagattcc c 501

<210> 31424

<211> 440  
 <212> DNA  
 <213> Glycine max

<400> 31424

```
tcttgatgag aacgttgagg tccacattcc ctgaaaccgt ttccttctct tgttctgcat 60
ctatctcggg ggtaaacacc cctgtgaaaa tgaaaaaatg gactcaaata aataacccaa 120
cacactattt atctcaaaga tatggctata gagatatgag attttgtttt tttcttcaag 180
gaacaaaaaa aataataata aagctttcaa gagtgaatg agatataaca tgagattttt 240
ctgatagatg cttaacatac catcaatctt ctgcaagatt ttcttaactt tgttcttgca 300
cccgtcacag tgtatgttca ctttgagaac acatttctgc atgtacaagc aatcccaaga 360
ggcaacacag aataaagaga aatttcgttg taaataagag gagatattga aatgggggga 420
taaaagtaaa acacaacatg 440
```

<210> 31425  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31425

```
tgtctttntc agggatatcg aaagaaggcc caggaaattc aaaaatttaa tgactgcctt 60
cacgtactgt ctcgtggggg gtatgaactg cttgacaaga aacttatgga ggagaagagc 120
aagcgtggac atgaggaaca ttcgtgtact gaaagcccaa cactcaacat cgacccacca 180
tccctagtgt caagacactt gaagtggaag atcgcccgca ctaagcggca tggccaaatg 240
acgtctgaag tggcacaaga aattgcagac aaaattgtca gttcatatat ttttttggtt 300
actatcattg gcaaataatg gttagctaac ctagtcaaat ttgttttatt caaattcaac 360
aattgtatat gcatgcagga ttcattacag gaacaagcaa cacaggggag ttntgttctg 420
catgggagac aggacatact caacac 446
```

<210> 31426  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31426

agagtcgctg atatacacct actccatcat attaagttcg tctgactctt tacgtctcca 60  
aacggaccga agctccgaga cgctgactat atgctcgtac acgccacgtc atcattcact 120  
ctttcttttg agtacaacga aaatcctatg cacctcgtat atctataaaa gatttcattg 180  
aatgcttaaa agcctatacc tgaattaaag gccttacgtc ttgggatacc atatacttgt 240  
accaantttct ataaaaataa atacgct 267

<210> 31427

<211> 444

<212> DNA

<213> Glycine max

<400> 31427

tgaacactct aaaaagaaat gcaagtactc aagatttttc aaaggtgaaa gaagtgccta 60  
agagacattg agacatagaa gcctgcattg ccatgtttgc aaacaacagc atccaaagca 120  
atgaaaaaat tcacaaggta tggaactaag ttactgaacc tgtataagag atgccatcat 180  
cattgtccat tgtaatcatt ggtggagcat atggggagac attggatcga gcagtgaagt 240  
tagatgactt tactgcagga tcagaaaccc tttcctggaa aaaaaaaaaa aaaaaaactt 300  
gctaagcatc taaaagtcac actgaatatg attagaataa agaaagaacc tagagtttcc 360  
agtatttcac aaatgcacaa atacttcatt agctttcttc cttttcgtta cttttgctct 420  
gtttcacttt cctatatattc ttac 444

<210> 31428

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31428

tncatcaggt gctaagccca atttcactta ctcacgctaa tctcgagggt ggcgctaagc 60  
gtagcgtcac gatttcagag cctattttaa gcttgccttg tgtagaatta gggtagcact 120  
tttatgacag cttctacaga cggtcagggc acagattttc agagcagcca cgggcctatt 180  
tatggaaaag agccctagaa gcataaaaga ggagcaactt atgcattgaa gcctacgttt 240  
tgtcatttga gagattattg agtagagagt gagtgtgaga tggtgagaag aggaggagga 300

atcccccttc ttatgtatgg aactatcatt ctctgctttt aatctcattt attattaggg 360  
 tttcttttgta atggctggct aaacacccta gttgagggat tttaatgaac acttgatgta 420  
 ataccaata tctaata 436

<210> 31429  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31429

ntgtcctcag atccctcttg ttggactaga cttataccaa actacattat tgtaacaaca 60  
 tacttaaaac caaaacttaa tctgcagatc cctcttgtaa gactaagttt caattctgct 120  
 tcattcaagt tctaaggaaa caatacattt cccaatgtta aaatcaccta actaggcaca 180  
 caaatggttg atcagaccaa gagcatacaa aatttaagca ctggaagaag cattgaacac 240  
 aagaaacaaa atcaattaga tatgaaaata attacatcga ctgttcatta taaatcccca 300  
 acaagggat ttagccaacc attacagacg aaaccctaac aataataagc ttacaatacc 360  
 taggaatttt attgatatga ttcttaaagt agatacaaga attaagaaac ttacctaaga 420  
 at 422

<210> 31430  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31430

tgtagagagg agttgctaag aaattgaaat tctctcattn ttacaaagaa tttcaattct 60  
 ttcattctct gttgaataaa attctttatt aaaatgacta aattcaattt ctctttaaat 120  
 gatttatcca aacatgtaat ttaccttga aatatttcaa ttacatgatt aaaatgaatt 180  
 acccagttaa aagtcacat ctaaacacac tcttattgat tttatccggc tctgtctagt 240  
 gaatttacct gtagtcgaga caaaaaaat tacaaaaatac ccaaatggt ggtcaaacaa 300  
 tatgaaatcg aggagcagaa aatcaattcg tgcccaatt gttaccaat catacaaagc 360  
 aatcaatca actctatagc gtagagcatc gtacaatacc aagtccagcc gcacaaaatc 420

aatc

424

<210> 31431  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31431

tgtaggatta tggngtaccc gtcacatgtg gtactatgtg gcgatcgggc gatggtacaa 60  
gtcgactctc cacgtccaca aatcacacat aaatccacca tccccagttg cccaccttca 120  
actgagctca cgtactccca catagccctt atcctcgttc ctctcaacac cgggtcccca 180  
tcaatccctc caagcttcca caacatccaa gcaattaaaa atccaaacat catgaactat 240  
caaaaccaag aaaacagggc agaggcaaaa aactctgccc aaaacacaaa caaataccac 300  
aactttcctt actcaaatac ctcaagtaaca ttctcttcgt tcctattcgt tcaccgttgg 360  
atcgtctcga anaatttact ggagggtccct agtacataaa tctacacttt gaccgttggg 420  
atctgctaga aaaca 435

<210> 31432  
<211> 345  
<212> DNA  
<213> Glycine max  
  
<400> 31432

ctccaataat tcaaattggc ataacttttc acacggaggt tcgattcttg cacatgatat 60  
atcgagacgt tcgtaattga acaacggaaa ccctcgagaa attcaaattg tcataacttt 120  
ttactcggat gtccgattca ggcacatcac atatcgagac gctcgggaatt gaacaacgga 180  
agctatgaag aaattcaaatt ggtcataact tttcactcga atgtctgatt gatgtgcac 240  
acatatcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atgggtcatac 300  
ttttctgacc gatgtgcgat tcaagtgcac cacatatcca gacgc 345

<210> 31433  
<211> 431  
<212> DNA  
<213> Glycine max



<223>        unsure at all n locations  
 <400>        31433

```
tgtatttaac aatgtntan aaatactttt aattaatatt tgaattttta ttcctttatt   60
aatatatatg tgaggggtag aggggtgtcac actatatata attgtttatg ttttagtggt  120
ttaatgataa acttatttga ctaacaatgg attagggtta ctataatacc tanggttttag  180
tggttatatgt cttattaggg ttcagtttta cttgaatacg taaggcttag tggtagtgga  240
ctaattaacg ttcaatgtta gttcagtact tanggtttat tgttacgtga ctaatatagg  300
gtttatgggtt gtgtgaatac ctaagggtta gtgttacatg tcttattacg gtttagtttt  360
acttatatac gtaagggtta gtggtatgtg actaattaac gtgcaatgtt agttcaatac  420
ttatgggtta t                                                                431
```

<210>        31434  
 <211>        291  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        31434

```
tggagtctgc acgagacagt catanactat gtagatgtcg tgtttagtac acggcgatac   60
agaatacact cattgtggca tgacatggga aaagaccaca actatagcat atacattaaa  120
agatgtgtga gtccagtata catatagatg ataccttctt gcattcattg gggctcaaga  180
tgattatatg tgagtcttag actcttctac tgcttaaata tatagattct gtagacttgg  240
acttacataa tcacgaagtc tatgatgtcg tggaccatga cgataatgct a                291
```

<210>        31435  
 <211>        369  
 <212>        DNA  
 <213>        Glycine max

<400>        31435

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tttccgtaat tgtggtataa gtgtatcata aagtcttttc cataagaatt agtcacaatt   60
gccttttgga atgagttctc caaacaacaa actaaccaag caaaagagtc aaaacaacca  120
cttacctaca gtatctacct caacccaacc ctcaaaggag ctatgcacag aatgtagatg  180
ctacctcgac ccgaccttgg cggagctgca ccaaaacaac caatgttcgt gacattcgac  240
```

ggatataacg atgtctacgc cagtgcacc ttcacggaaa acatacttga atgaaaatgg 300  
aagaagggtgt tgggagtagg tcagctgctt ttaagacaaa gggtgaataa aggaaagtta 360  
aatacatca 369

<210> 31436  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 31436

tgccaccag cttgccagg cgagctcagc tcgccaggc gagcaagggt gcttcctcca 60  
gaagcaacag ccttctggag gaaggatctg gaaggcccaa gtgggccata ttgctatttg 120  
cactccatt ttactaaatg cacccttc tatttttttg gtaattcttt ttccgtaacg 180  
ttacgaaact ttacgaatt tcgtaacgat acttattttc cttccgcaag gttacgaatc 240  
cttacggatt atgtatttac tcttttttag ctttcgaaga agttacgaaa actcacggat 300  
tgcgcaaaaa cacctctttt cgatttcgc cacattacag aatttcacgg atcgcgcaag 360  
cctgcttct tttgatttct gacacgtctc gggacttcat ttattgtgca ac 412

<210> 31437  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 31437

tgagatatcc gtaaagatca aagaagaggt gaaaaagtag ttcgtcactg gctttttggc 60  
agtggttcga taccgccaat gggaggccaa tattgtgccg gtccctaaga agatgggaag 120  
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcctttt 180  
accacacatt gatgtccttg tggataaac atccaatttc actttgtttt ccttcattga 240  
cgggttctcg ggttacaatc agataaagat ggtgccggag gacatggaga agactatgtt 300  
cgtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaattgttg 360  
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420  
agtctacatg gatgacatga ttt 443

<210> 31438

<211> 381  
<212> DNA  
<213> Glycine max

<400> 31438

tcaataactg ttcatgtcca ttacctgtag aaatctcaca aatgtctgga cttaccttct 60  
taaccttaac ctacaaccag gtctctggac ctattccatc tgaattggga aagttgactc 120  
gccttatggc acttgatctt gccttcaaca atttcaactgg accaatccct ccaagccttg 180  
gaaacttgag ttctctccta tggctaacc tttcagataa ttcgttatct gaagaaatcc 240  
caccagagct gggaaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300  
cgggaaaatt tccttctgag ctaacgagaa ttggaaggaa cgcaagggcc acatttgaat 360  
caaataatag aaaccttggg g 381

<210> 31439  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31439

aactaagctt gccagcggtta ttatggatct ttcaagatta tcaaacgcat atgtcctttg 60  
gcctatagac ttctgttgcc agcaggggtct cgcattcacc tggcttttca ttgctcacta 120  
ctcaagccat ttcttcaaga tggtgacaat caactcgcgc cacttccact cccaccaacg 180  
accttgata accaacctgt gatctcatcg ttagctattc ttagctcgcg tcaggaaggt 240  
ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctcca cgtagacgac 300  
acctcgtggg aggactgggc cacattgaag ggcacctatc accttaagga caaggtgatt 360  
nttgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420  
acaagaaaga tcacaacacc tcga 444

<210> 31440  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31440

agaattatac aataacactt tttgcccgcac catgtaagcc ttcttaatta tcatgctatc 60  
atggaacttc ttggtctttt cttttagaaa cttggcattc tcgtaagctt ctaggaggat 120  
ctcatctaac tcaactcagtt gcaactttct tctctacca gcttgatcca tagagaagtt 180  
gaaggcttct actgccagct atgctttgtg ctcaatctcc actggaagat gacatgcctt 240  
tccaaagaca acccgataag gagacattcc tatgtgtgct ttttaagaag tcctatgtgc 300  
ccaaagagca tcatcaagcc tagtactcaa atctttcttg cttggctaca caatcttctc 360  
taaaattctc ttgatctccc tgtagagat ttctgcctgt ccattgggtt gtgggtggta 420  
tggtatggat accctgtgcn 440

<210> 31441  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 31441

tgaatatatt taatagtact taacaatata cgggatactt ttatacctat aagtacgtgg 60  
cactccctaa aattgcccta atagtgaaca atttgaatta ttacctaata atcttaggtt 120  
cagatttcat taccgtaata ttataaaaga aagtaatagt gtaggactta ttgttcttca 180  
acttatttat acatatcttt ctattttaat ctcaatttaa tcaaatagat tttttctttc 240  
cttgtaatat tgatagacgt actttcttac aggaaaatta agtaaaatat ttcaaataatg 300  
tggtgaacat tttctaaaaa agacagataa ttataggatt attactagca ctgtatgcac 360  
caaatacaca tctattctgc tgaaactaaa gaatcagata taatgaactt tgtgaaattc 420  
ttgacagtgt gtact 435

<210> 31442  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 31442

cacttaaagc tcttcgtgca atgaactcta actatctacg ccattaatgc ttacattaaa 60  
tgcattggtcg ttcttcatgc agagagatca tgttgataga ttaacgtgac aaacacttca 120  
gccgaaaagt cacttctttt atcaaacttg atccgcatag tgaaacgccc tttgatcaag 180

gtcaacactc tcaaattatg gacttcattt attattcata agattttgac ttgatagata 240  
aaagaatctc aaacgcacag tattgaataa aggtctttaa tgcaacacct acatgctatg 300  
tcacatcatg tatgtgagag acatcatctt gaactccaaa cgatgagata cagatcatga 360  
tccggccaca cactacact 379

<210> 31443  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31443

tccatcaagt ggtaatcaga gcagaagagc ttcaagtagg tgctccttaa acctccatta 60  
atTTTTtGct ttaccttctc ttccattatt ttttcttcat tttttctcca cgtatctcct 120  
caaatgtctt gtgctaaatg ttcttaacat gattctttag agttttcacc gattaaactt 180  
gctagagaag ctagatttta ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240  
tgaattgtgt tgagtttaag ttcttttgag ttttgtcttg ttattttttg tggctgaaat 300  
ctaaaccata aaattcttac aaaaatatta aagtagaaga aaacctcaa aatctagagt 360  
gacttgttca cctattgtag ttntgtcata gaagtcatgt ctagtcatga aacttgtcac 420  
ataagatttc ttatg 435

<210> 31444  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31444

ttntaactct taatattatt ttttcttata aaactgcaaa caagtgcaat tacattccat 60  
ataagcatat gctctaaata aacagctttt tagctcttag tattctaact tgatgcaata 120  
aaataattga tgtttgcttt tgggtattat tcagataata tttttgttaa aaagggtttta 180  
aattgaaaga ataaaaaatt tcatacatga gtataaacia aagattgttt tgtagataaa 240  
cagagtgata tattacaact tcaacaaaat cattcaaata atatggcctc aattttgatg 300  
tgcattaaag aacaaaacta cagaaaactt agcacattca agaagcatag ctactttcat 360

atttctgctt gttaatgttc cctctttttt ttgttccgtt attttttatg tcaagcatag 420  
 attntcccat gt 432

<210> 31445  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31445

ntataagcgc gggctctggga gacaaaggtc aagtggtcgc gatatgcgaa gatgatgttc 60  
 cgagtgcatt ggatttggtta cgaccatgcc ctcttgattt ctagctggga aattggcgag 120  
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180  
 ctctatagtt aggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240  
 ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300  
 ttcatttgca tgttaacttc tttatttctg aaacggaaga tccgatgacg agtccccga 360  
 aggtactaat acctgggacc cgcttatcaa ctctcgagaaa gaaacgaatc aaacggaaga 420  
 tgaagggaac gaggatgtgg gact 444

<210> 31446  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31446

tgtagaattc accccaattc cagtgtccta tgctgacttg ctcccatatc tacttgataa 60  
 ttcaatggta gccataacct tagccaaggc tcataacct ccatttctcc gagaatacga 120  
 ctogaacgca acgtgtgctt gtcacggaga agccccgggg cgttccattg agcatggtag 180  
 ggctctaaag cgtaagggtc aagggtctaat tgatgcgggc tggctgaaat ttgaggagaa 240  
 ttgctgtgaa atcctgacat tgacaagaga tgccacacat ggggcaattt tgaaagctgt 300  
 tgttaggtgt ccctaatacgc tcatacagggt ttccaagttt atgccattat tgtaaaccac 360  
 agctacaatg ttaaatgaaa tggataaagt tgatatcttt gtccctcatc ctctcacaaa 420  
 cgcattgttg cttattcaac tntcatcg 448

<210> 31447  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<400> 31447

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cttgccctttg caattccaag acactagtga gcttccaagt atatgacatg taccatttgt   60
aattttccta tctaatttgc atcttccaaa atcagagtct gaaaaacctt ttaagtttaa  120
ggaagttcct ttggaatacc acaaacctac attgggttggtg cccttaagat acttaatgat  180
cctcttaaca gtagttaagt gagattcctt tggattggac tgatatattg cacataatca  240
aacacttagc atgatatccg gtctacttgc agttaggtag agaagtgatc caatcatacc  300
tatgtatcctt gattcatcca ctgatttacc tttctcatct aagtcaaggt aggttaatgt  360
tgtaacgcct ttaaatttca ataactgaaa atagatgttt gatgtatttc ttgtgttatt  420
tgattactgg gattaattgg atgagttg                                     448
  
```

<210> 31448  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 31448

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tctagaagga gatcaactgg atgttctatg cttcttgaag gtggcagtcc atgaggaatc   60
tccttggaag agacatcttt aaattcctgc aataagggtt gaacactagg agaaacataa  120
atagttaact gattagaatt atcactctct ctcttttggtg tatcactctt ttctctgggt  180
gtatcactct tctttttcat attcctttgt ggagcctcac tattttcttt ctcttgttct  240
ctcttttctc tcattctgat ttggatcatc cacacttctc taggtgatag aggtttaaga  300
gtaaacaagg aagatttgat caacaaacgt tgcatttggtg tagtccacgc gtccagaaat  360
aagcgttgag attcatccag ttgatgatat acaccaccat tgtcaccagc tcttgccatg  420
a                                                                                   421
  
```

<210> 31449  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31449

gaaactcaag cttggtgtag aagggtattgc taaaaaatgt aatcggatgt ccttggttg 60  
ttagcacagt gccattcct acacctgggtg catctgtttc gatcatgaag ggtaaggcaa 120  
agtctggaaa actcagaact agagccttgt tgattgcttc ctttagttgc tcgaaggcat 180  
taatggcttt tggagtccaa gtaaattgggt cctttgcca aagttgtgtt aatgatgtag 240  
caatagctgc atacccttta atgaatcgcc atgagccatc acttttctta accaggagaa 300  
ccgaagatga gaaagggctt gtgcttggt agattatgcc atttcgtaac attgattcta 360  
cttggttctc aatttcttgc ttctggaaat gggggtatcg gtatggtagc acattaactg 420  
gtnttgagtt tggaaggaga tggatcacat ga 452

<210> 31450  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 31450  
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ttattttaat ccaaataatt gtgtcaattt ttttaggtta ttttgtatca atttcttaaa 120  
tacgaagtcg tgtcgtgcgc aatctatcaa agtaatcaaa ttaaacta caagtcatac 180  
caacaatgat ggattagtgt tttagtattg cataattata taattattaa tctgtttcat 240  
ttcctccaag tcaaaatttc actttatagg ccaaaatata tatgttcttt ttatctgtct 300  
ttcttaaca atgatgaaag gtctgagaaa cattttattg acattgacta cttacgctta 360  
gaccttgat caaacatta aaaaaatggt aagtattgat atacactcgt accaatatga 420  
ggtaagggcc cccattt 437

<210> 31451  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31451

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gcctcttgaa gaaacttttc taacttagaa acttttcttc acactaatca tgatgatgca 120  
 tgatgcaata caaatatcaa atgtactaag atgcaacaac caagataaca accaatacaa 180  
 atgccactca agggatttag gcatgtaaaa gtgaaaactt cttcaagctt ttctttgagc 240  
 ttcaagcttt agcctttaag ttgttcacca tgttgctcct tctatctcta acactgcact 300  
 ccattocatc ccaccatggt tgtccttaac cagcaaaaac gactntgtta tcctttgtgt 360  
 agaccaagca atgaagtaca taaaatttgg gataaatata cttggacacc tagtangaga 420  
 gagagagaga gagagaga 438

<210> 31452  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31452

cctttcattn taacccttag aacttcccag ttcaaattgt catagataaa gnaatgttga 60  
 tgttcaaagg acacttttaa tcccttttta atcaattgac ctacacttag caagttttgg 120  
 tcaatgttag gtacataaag aacatctgat attaatgtga tacctgaaca tgttgaaatt 180  
 gcaacagttc cttttccttt tactgaaata tagccaccat tccaattct gacctttgag 240  
 acattanttg gcttcaaate cttgaataga gtcttatcat atgtcatgtg gtttgtacaa 300  
 ccactatcaa tcaaccaact ttacttgat tcactactca agaagcatgt ggccacaaac 360  
 agttgatcct cctcttcttg attagcaatc tgagctccct catcatgat 409

<210> 31453  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31453

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 aaatcttcag aaacaagtca tttgaagaat tgtgactttt ggaaatgtat ttttcaaaat 120  
 caatcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac aaatgtgact 180  
 ctttattttg aattttgaaa attaaaacat ttagaagctc tggtaatcga ttgcaagtat 240

tgtgtaatca attacataag tttaaaatac tttaaaactg tttaaacata agttataact 300  
 cttgaaatth gaaatcttaa cgttttaaaa cactggtaat caattactac cttctggtaa 360  
 tcgattacca gagagtaaaa ctctttggta atgaatttgt gaaaacttct tgtgctactt 420  
 caatatttg 429

<210> 31454  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31454

tgtaggcctt ggatcttctt catcaatgga gtcctttgct tctttaagat gaatggcagc 60  
 gtaatggaga aggaagaaag atgattggag acgccacttc aaggagaaga tgaatcaaga 120  
 agaaactcac caccatagga agccatggat aagagcttga aggtaggaga agatgagtgg 180  
 agggagagga gaggcacgaa attttgagcc tcaaatagaga tctgaacttt gaagtataat 240  
 tcttaaataga tcaaagttga aaatatgcac atacatgacc tctattttaa gcttaagtgt 300  
 cacacaaaat tggaggggaaa tttgaatttc tattcaaatt tcaacttgaat ttgaaattga 360  
 atttgtggag acaaattttc gagccaaaaa ttcactaatt atgattagtg aattntagct 420  
 at 422

<210> 31455  
 <211> 487  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31455

naagcgacgg tggggtttgt ttgacccttg cataacgaga actctgaaac tcagcttggt 60  
 gagtaaatac cagccccaat tttatgtgga cctaattgag cngngaaggc aggacgtgtg 120  
 caatatatga gaaacaattg tccgtttcac ttcctaaaga tacagagatc gacgatgact 180  
 aacacccact tctgtgcggg gggttctcca tacaggggag catcatgtga tctaaaggac 240  
 tacaacgggg actattggaa tagctaacag gagcgtccaa ttttcagcct acaacgttga 300  
 acgttccata gatagactag agtcatacac cgcattgaaa acgcacacaa ttaacgtgag 360

taacgtagat atgcatgagc taatgtgaac gctctcttac cctttctaga attcaatcga 420  
catagacacc tcgtagttct tccatctcat gatgaaaggt accacaaata gtctcgactt 480  
tatttcg 487

<210> 31456  
<211> 303  
<212> DNA  
<213> Glycine max  
<400> 31456

agagcagagg catcaacttt aatgttcatt ttattaacat tcggttagcc cataaaccgc 60  
tggcatgtta agacacgcgt tataattctg cataaatttt acattaatat gccattttga 120  
atatgcgata tatgtgaaag gaacttctaa tcacacctgc cgttataaaa caatattatt 180  
tattctgaag gtatagaatg gtatgataat cgttgacgtc ccaactggcgt acttagaccc 240  
ttccttatat attaaagttt tacaacgtcc cctgaacaca acatctttta tgtatgctca 300  
cca 303

<210> 31457  
<211> 407  
<212> DNA  
<213> Glycine max  
<400> 31457

cttgcttgag tgatgatcca tgctctcgcc catctatgga tcatgtgtct aagaagctta 60  
tgagagggat atcaccttta gcacaccagc tccctatgaa tagactctgg acaactatct 120  
ttaaggacta aactaattca cgattttggt gttcttggtt acttatttat acaccttata 180  
tcctttatct tttgatgtaa gcttgctcgt gttgtcattg taatacacca tgtataagtt 240  
actaaaggtc gagagtaact agattgtcgc gttcatatac tatggcgatt gtgagaatga 300  
attggcacat tatctttatt gggaaatgct tgggtgtagag tgagcatgca tatgtacaag 360  
ttagtggtga gaataacata gcagtacaaa tgattgactt ttaaatt 407

<210> 31458  
<211> 448  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        31458

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tccttaagaa gcttcattga gaagctagag cttagctaca cacaccctc taatagctaa   60
gctcacctcc ttgagatgaa aagctagagc ttagctacac ataccctct aatagctaag  120
ttaacccccca tgccaaaata catgaaaata caaaaaagtc cttactacaa agactactca  180
aaatgccttg aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc  240
aaaaagaagg aaaacctatt ctaatattta caaagaagag tgaaccaac cttgggacat  300
gggctcagaa atctaccctg aagttcatga gaaccctang gccttcttta gccactctag  360
ctcaatcctc ttggagtctt ctatccaata cccttggggg gtaggaatgc atcatcaatg  420
ctatgcaatg caatcaatat gcaatatg                                     448
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<210>        31459  
 <211>        449  
 <212>        DNA  
 <213>        Glycine max

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<400>        31459
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tcttaagctg tcgagaagca tagggcacta cctgtccccg ttgcataagc actccacca  120
aaccatctt ggacgcacat caatacacca caaaagattc actcgggtta ggtaacacta  180
aaactagtgc agtgggttaac ctttccttaa gggtagcgaa actactctca cattgggcat  240
cccacacaaa aacttgaccc ttacgagtaa gcttagtcaa aggtaaggct agcttagaaa  300
aaccctctat gaatctacgg tagtatcctg ctaagccaag aaagctccta atctcaaaca  360
ctgacttagg actctcccaa ctcatcaccg cctctacctt ggaaggatct actggctatc  420
cctccttaga tataacgtgc cctaagaag                                     449
```

<210>        31460  
 <211>        447  
 <212>        DNA  
 <213>        Glycine max

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<400>        31460
tatggggcca aatgctttgc ttactgcagg caacacattg atagctagca tagctcattc   60
acggaaaggg cggtggagga accgtgtaat tacttggtta caccatatct taaagagaca  120
```

cagttggtgt atcttgtctt gttgaattga aaactgtgct atagacaccc ttaaaaaagg 180  
aattgcttga aatgagcatg acttttttct tttctgcttc tggggtgaaa agtctgtata 240  
taatatagac tttcatagac aattgatttg cggccacaga tagaggattt ttggaggctt 300  
gactggagag atgattcaat ttctgaagga aatcttcagt ctcattctga gatgtttctg 360  
ttagctgata atagtgtcat agaaccagc aaaattagtt gaattttgaa gacagagata 420  
ttgatactcc aagaggggtg gagaatt 447

<210> 31461  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 31461

tcacgcttgt tatttcatcc acatcagact cattgttcaa tctctcatca acaacaccca 60  
aaatatatca ataaaggtag tgtgccctac aatgctatca aacaaacaac accctttaac 120  
actgacacta gacagtatag tagcacgcag ggtgccctag ccgaaggcct tgcaaggggt 180  
tgtttggttg gtcactatat acagtcttgt ctcttcctta ccctacccta catgtcacta 240  
acttcaaaag cccaacaaca aaaagtgaga atgaacacat gaagcttacc tcgacaccaa 300  
caacgataat ggcaacgacc tggcagcgag tgggagttaa aaagaagagt cgtggcgtag 360  
agaggaacac ctacatgggc aaaatgaaag ttgtgacaga gacgaagagt cgtgactgac 420

<210> 31462  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31462

tattgtacta ttaaaagagt aaataatcta gtgtgtccct tggaagtgtt aagctttgtt 60  
acttttagtgt ctaaaattaa gtaaattaat tttattttct gaaattgcaa tctgtcagtt 120  
tcaagtgtaa catgtgactt aagtgattaa tattaacatt tgtttaagga tcaaaatgat 180  
actaagtggg taaaattatg gagttagttg aaatgactaa gaattttggg atttatttaa 240  
atttttctta attttaagga ctctgtgtaat agtgctttta cactttcaac actaaaagtt 300

aaggtgattt acccggtgtc tctaccttag tataacttcta tcaaagcatg aatatattac 360  
 ttaattttatt ataatagcac tcaatcatta tattatcacc cacatttttg attcataaaaa 420  
 nagaatca 428

<210> 31463  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31463

ntgtctcatg ctttataata ttctaactac aatgaatata ataagattag ttactataa 60  
 aatatggata tcagaaagat cggcaataat tactataccg cagataggta ttcagaatat 120  
 catatacctc tcatagtatc ggggtgcttg cctatccaaa atatacctct tgtagtatca 180  
 ggtacttagt ctagccgaat acttgacacc ccttatagta tcagatactc ggctaataca 240  
 aatatctgat cccttggtta atactcggtc taaccaaata tcgaatatgt ctaatgttat 300  
 ctttgacaac ttattaaaga aagattacct agattaacta ataaaaaata attaagggag 360  
 atatcagttc cttaatgata attatacata ggagcattac ctaattttta tttgatgctg 420  
 acacggcacc t 431

<210> 31464  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31464

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60  
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaact ttacgcaaaa 120  
 ctggtcatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcan gattcgtttc ctctatttta atcaacccaa tgtttccaaa atatgttctt 240  
 ttatcaattt gtgcattcat ccgagtcctt ttcgggcgtc cggggaaatt tcacagcatt 300  
 cacccttcag gtgtagacac attttccaaa aattgggttat gatcaatgaa ctttttcaaa 360  
 gaaaagttgg aaatcgtctc ttttcaaaaag catgttggtt tttcagctta acaacttatt 420

ttttcttttt tttcta

436

<210> 31465  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 31465

tcaacattca atatcgagcg tctcgatata ttacgggact ctatcagaca tccgagcaaa 60  
aagttactgt cgtttgaatt tgctcagagc ttcgataatc aatttctagt gtctcaatat 120  
attacgagac tcagtcagac aaccgagtaa aaagttattg tcgtttgaat ttgctcagag 180  
cttcagtatt caattctgag catctcgaca tattacggga ctcaatcata catccgagta 240  
acaagttatt gtcgtttgaa tttggtgaga gcttcgataa tcaatttcga gcgtctcgat 300  
atattacggg actcagtcag acatccgagt aaaacgttat tgctgcttga atttgctcag 360  
agcttctgtc ttcaatttcg agcgtctcga catattacgg gactcactca gacatccgag 420  
taacaagta 429

<210> 31466  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 31466

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attggttgac cacaacagcg ctggggggcg caacggacaa tggctcttca aataaacctg 120  
ttgtacatga acaaacatta tatcatgcgc tgaccgtgcc aaacgaacaa gcgaagtcac 180  
tgcataattg ttacactaac tatattcaat gtacctgaac aaaatgattt ccaaacacgt 240  
gaccgacaca tatgatgcgg tggccagaag agtcaggtgg tggttgactt ctaagaggga 300  
aaaatgtcat gctttgttgt tgggacaacg atacaaggat tacgttatac cgtgaagcaa 360  
tcacatatcc catgtctgtt atatccatcc acttgtccac actaacctga atgaacacaa 420  
catacacatg taagta 436

<210> 31467  
<211> 430  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31467

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aagtgggcct ggttgctatt tgcactcccc tgtttactaa atacaccctc tgcctttttt 120
tgctgattct ttttccgtaa cgttacggaa ctttacgaat tctgtaacga tacttgtttt 180
cttttcgtaa tgttacggaa ctttacggat tacgtaatca tccttttttt ggcttttgga 240
atgttacgga acctcacgga ttgtgcaata atgcttcctt ttgatttcca gcatgttaca 300
gaacttcacg gattgtgcaa caatgctttc ttttgacttc cggcctgtca cggaacttca 360
cggattgcct aacgataggt gccaaagtacc tcgaagcggg gaagcanagg ttgcatgcta 420
tcaaacaatg 430
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<210> 31468

<211> 435

<212> DNA

<213> Glycine max

<400> 31468

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cttaattaat tgtcttgata taaaatttct acacagacta ataatttcaa agtctataca 60
gtcgtattac ttttaaattt ggatgtaatt gtgtgtttta ttttctaacc cattaaaaga 120
gtagaaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180
ttatttcaat acatgtgaaa tttttttaaa aattatagtt tatacgctat ttatttaaaa 240
cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300
atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360
aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420
tatattattt attga 435
```

<210> 31469

<211> 359

<212> DNA

<213> Glycine max

<400> 31469

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agcttgatgt ttctttaaca tttatcccta tagaatgggt actttggggt ggtgagttcg 60
```



ctgtttogca ggcttttgac ataatcttgg ctcttggtcg gtgggttggg gagttggtga 120  
 cttgctatgc tctgagattc ctgagttggg gtgttctcca gctgggtgagt ttgttggttaa 180  
 aactgctggg tttgtttact gcaatgattg ttattgggtgc accattttct tgtttgctga 240  
 gtgccattgt tttgttttag ggtataagaa aaccagacgt actttgcatt ggatttttgc 300  
 tttgaacaat ggttttgata accctaaaca ctaaccctag actttgttgt ctcaactct 359

<210> 31470  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31470

ctgcctccta tatcgactct tgtctctcta tgaggagggt gctgggcctc gataaccagc 60  
 tactaacaac aattcacatn tatatatattt attcaactaa ctgagattag atagactctt 120  
 tatttgaaga acacatttag agtgtgggtg gatgaga 157

<210> 31471  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 31471

aatccatgtc ccatgcgaga ttgtcaatat tgtcaaaatt aaacgatttc tgtactgagg 60  
 caagcccagc aatattcttt aattaatatt aatgatatt tgtatttttag gaacagttga 120  
 agaatataaa tgtaaagaaa aatttggcca tcattacttg atttcagctc atatgagata 180  
 catcattaaa aatttcagac ctgttcgaat aaataactta attaagtgtt tattatatta 240  
 gtgtttggat aaacaggatt tagagtctgg ttagatatat agtcagtttc atttatatcg 300  
 aagaagtcac ttattcaagc catcatcaca cgtaacgtgc atgttcaaata aaatacttat 360  
 tcacgctctg atct 374

<210> 31472  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 31472

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ctaagctcac ctccttgaga tgagaagcta gaacttagct acacaccccc aataatagct 120  
aagctcatcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttac tacaaagact 180  
actaaaaatg ccccgaata caaggctaaa accctatact actagaatgg tcaaataaag 240  
gccaaccca aggataaacc tattctaata tttacaaaaga taagccggct catacttagc 300  
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360  
tagcccaatc tacttggagt cttctacca 389

<210> 31473

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31473

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ataactaagta tttattacct atacttaaca aaaaataactt ataacattac aaaataacca 120  
taaattggga gagtttgata caatttatac aagttttata cacaaaagtt aatcgttttc 180  
accgactaac agttcattac atcacgtcag gatacaactg aaaataaata acaagtgcac 240  
cagtgattct taattatgtg agtcatcagt tcgaccatat gctggcaata atcgaagaga 300  
ctatgaactt catcgggagt agagtacata tcacccatca tcttggctct tagctagcag 360  
ttcaggagtt cttgactctc atttagcgtg agcacaaaacc tattcatcca cttcatgctn 420  
tcctgatgca gtagctctat cactttc 447

<210> 31474

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31474

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ctacattact aaacctcgat cctcgtcag actgaatcaa tccaagcttc gtcctcagat 120

ctctcttgggt ggactaggcc caattgagac agccctctta ggtttagact aacttacact 180  
gagttntgtc cgcagatccc tcttgtaaga ctagactcag ctcaagcagc ttacgaaagt 240  
ttagcctaatt ttagcctaag cttcatccgc agatccctct tataagacta agcctagact 300  
aaacaacatt attgtaacaa cataattaan accaaaactt aatccgcaga tccctcttgt 360  
aagactaagc tntgatcctg cttcaatcaa gttctatggc aacagtacat t 411

<210> 31475  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31475

agaggatgct tcaatggagg aaaataaaga gggagagaat gtataggggg gagcacgaaa 60  
ttgaaggaat aaaagaggta gagaagtgga actttgaagt atgtctcaca agactctcat 120  
tcatcaaagt gaccacaagt gttgaacatg cttctattta tagactaggt agcttccttg 180  
agaagctttc ttgagaaaac ttccttgaga agcttccttg agaaaacttc cttgagaagc 240  
tagagcttag ctacatacac ccctctaata actaagctca cctccttgag aagcttcctt 300  
gagaagattc ctatagaagc tagagcttag ctgcacacac ctctctaata gctaagctca 360  
cctccttgag atgagaagct agagcttagc tacacacccn ctataatagc taagttcacc 420  
cgcattccaa aaatacatga aatatacaaa aaagtcccta c 461

<210> 31476  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 31476

tgttcccttg tctttgtttg aaactcacta caagccctaa atgataaacc atgatatcac 60  
ccatatcgct taacgggaat tttggagctt ttgaatcggt ctgggaataa gtgtgggggc 120  
gttttggttc attggataac ctgctttgtt ggctatgctt catgatgtat tttgggcat 180  
acttgatgta cattgatatt ggtaaatgtg gacatgctga tgaaatgtgc ttctcaatgc 240  
tatagacaaa aaaaaaatt cc 262

<210> 31477  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 31477

acaattgcat cacctctcaa tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60  
 aaacaagagc agtcctttgc tttgctcaaa gaaaagctta ctaaggcacc tgttctagct 120  
 cttcctgact gttctaaact ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180  
 ctgtattggt acaagggtggg cactctattg cttattctaa tgaaagactc catagtgtcc 240  
 ccctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300  
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 31478  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 31478

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 ggatgccccca cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120  
 caaaactggg catgcatgcg cctatgcgga cgctcaagtg tcaaatttta tggatcatgtg 180  
 atgctagggc tcacgattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240  
 ttcttttatc gatttgtgca ttctccaag tccacttctg gcgtgcggag aaaatttcac 300  
 agcattcacc ct 312

<210> 31479  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31479

tgtttacacg cggagatnta cgctatcttc cgtactcaca agatctgtca tactcacatt 60  
 tgagtcacgc tgaccggcgg aaatacccca gtgggttagcc gtataaacat tcttcttgc 120  
 atctgtaaga cgaaaagcct gatagcatgc gaagactgac atcgtcttct gcgcccttcg 180

tcaatcgcg cgcacaagcc cattgacacg cggagattta cgtcatcttc ggcgctcaca 240  
 agatctgtca tactgacatt tgagtcacgc tgactggcgg agata 285

<210> 31480  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 31480  
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 aatatatcaa gacgctcaaa attgagtaca gaagctctta gcaaattaaa acgacaataa 120  
 ctttctacac agatgtccga ttgggtcacg taatatatcg actcgctcga aactgaatac 180  
 cgaagctgag agcaaattca aacgacaatg actttttacct cggatatccc attgagtccc 240  
 ctaatatatc gagacgttcg aaattgaata cagaaactgt gagaaaattc taacgacaat 300  
 aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgctc aagatttata 360  
 acggaagctc gtagcagatt caaacgacaa taactttg 398

<210> 31481  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 31481  
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 tacctggaga tatgtcgtgg ggggtcaagag accttgtgga cgtgaggtgt tgtgctattg 120  
 cccaaaacca agcttgacca atcaccgacc aaccgggtca tagtctgtct gtgtgaacct 180  
 gtgatgtacc taaacaggcg atctcctgcc agtctataga tgaaacgaac taataccaca 240  
 aatcaaggat gctagtgtgg tggctggcca gctgtgaact ttgattgata tgtggagtat 300  
 ggccctctgg aatcgattac caagggtgtc taatcgatta 340

<210> 31482  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 31482

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 tgcgtatatg tcttctatag ctcatgggaa agccaaattc tcgacaacac tttgtgcaact 120  
 tctgtaacta aaccttcaca aggagacata ggcaaccctg gaactctgcc aagccaatgc 180  
 caaggtttat cacaatgttg gaattaaaat cagtagcacc aaaaacaaac ctcaaaagct 240  
 acttatgggg cattttacat acaa 264

<210> 31483  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 31483  
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 gggaagttga tgcgatgatca ttagtgtaat ctgtaattag atcgcaatta gatgataata 120  
 ggaggctgag ggagttagtt agcaatacca cgtgtcatta ggtagtggct ctaaagaatt 180  
 gattattctg ttacgttttt ctattgggaa gtttgctaag aggtagctag taacaacttg 240  
 ttatatatag caagttgatg tgaatgctca tttttacatc tgaattccca atactctttt 300  
 aattcttcgt attcttcatt ctataatcaa taatattata gactctctct gattgggatt 360  
 ctcttcttca tttctagtto ttccatttga tcctaaatcc tagaactata tcaacttgga 420  
 tcagaattgc accttcacata ttca 444

<210> 31484  
 <211> 164  
 <212> DNA  
 <213> Glycine max

<400> 31484  
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 gctaatacaa acaggaccta cattcaaatt catttaaacc tgaccacaca ccacaataac 120  
 tctcccaaca ttatttcact agttgaattc accaaacaaa acca 164

<210> 31485  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 31485

ttgatctcaa cattaaatgt agaccttatg atgggtcaag cttgttatca tgagatactt 60  
 tacacacaga ttgtctcatc ataatatgat aatgcaaata gatgctgatt ttaacatttg 120  
 tattgatttg catctaata caaataatcaa gagtcctgat ttgttttaag acataaatgt 180  
 ctttagactt gacaacacat taagaatcaa caaatataca gagtcaatgc acatgcatca 240  
 tccaccttca acacacaaaa tcattctcct caatcaccat atagactata acattatatg 300  
 tatgttgacc ccatggaaaa ccataacaaa gtaccccaag ttccc 345

<210> 31486

<211> 259

<212> DNA

<213> Glycine max

<400> 31486

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 agctctatgt agagtttaca acagctctca aaacactttg attatcttga gagaatggac 120  
 taaaagacga gactatatat cctgatgtgc gacactcaaa tagttagtcg ttgcgcaaca 180  
 ccaacaacaa atcaatctta tctgtatata atcgataaca atttggtacg acaataata 240  
 ttgggctaca tcgaacttg 259

<210> 31487

<211> 302

<212> DNA

<213> Glycine max

<400> 31487

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 gtctatcttg atataacaat atacatatga ataggtgtga ctctctgaaa agattaaatc 180  
 tttacattac cagacatgac atagttttaga aacataacca atttaccatgc agaataaac 240  
 atttatatat acttcaccca tccctttcat tcgaatcgct tcctttctct cttatgcata 300  
 aa 302

<210> 31488

<211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31488

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agctttttaca aaacactgtg gccatctttg tctttagaag ctaaagattt tgtcaaacgc 60
atattgaata aggatccaca gaatcgaata tctgctgctc aggctctaag tgagttattt 120
ttcttgccctc tatcatcaat ttcaataata tctagtaaga cattnttcaa gttgtcagcc 180
ataatcttgt gcttgcaggt catccttgga tacaaaattg caataatgta aaagttccac 240
ttgataaatt gtcagccata atcttatgct tctgttgga atgaagtatt cctactttat 300
tccaaccctt gtgtttgaaa atgatata atcttctgac cacaagtatt ttcgatttat 360
ttctctcttg taaacctctg agaattga 388
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<210> 31489  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31489

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actntcctaa attcgggttaa agattcaatc ttgggtgatg ataatgctta tganacggta 120
aggaagttag caaatgggccc taatagatat gttataactt ggcaaggata cgatatcaac 180
aagtattcat tctacacgaa atcataagat ggcaagagta caatgcanaa cagtgggggtt 240
agtccaaggg ctgaatctca acactttggt actgtacatg atgacaatcc ttgtctagct 300
cacatgcctt actttggagt cattgaagaa atttgggagc ttaattatct aaaattcatt 360
gtctgtgtn ttaagtgtaa gtgggttgat agcaatatca atgtgcanat cgatgatatt 420
ggatttactt tggtagatct ga 442
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<210> 31490  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31490



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 ttgcagatgc cattgggggt aactctgctg ctgcggtttt agttcttttt catttttatg 120  
 tgccaaaaaa agagtctcta acttacatta cttccattga ttcatagttt tgtttggccc 180  
 ttttttcctt aattttttta aactttaatg tgacttggtg gataatatat ggagtagagt 240  
 ttggatttag ccttgtgtca tctaaagagt gtgttattgc ggcgttcaat atgcacgttc 300  
 cacttcgacg cttccattnt cagcacagta acgtagaagt aacaatctgt taggttaaaa 360  
 atattttgta aata 374

<210> 31491  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31491

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 tcatgggtgag gtggatatac acctcttcag ggcggtttta gatggctngg tagctatagt 120  
 gaatgggtat ggttgaaggt aggggttttg gcaggtagag gcagccatgg acagcangtc 180  
 gaaccaagtt gtttaggaata gaggactagc taacgacact aacctatatt tgatcattct 240  
 tctctgattc ttatttcctt cctaggggat atntatagtg atcatacaac ggataaggct 300  
 tgcattcatg acccat 316

<210> 31492  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 31492

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 ttgatgaact actagatgga tctgtgagga tcttggatat ctgtagtaca attaaagatt 120  
 gcctactgca acacaaggaa agagtgcacg aacttgagtc agctattcgc aggagaagag 180  
 atgccgaggc cggattcaca gtttcgagtg gaaaataactt ggcattctacg aagcaggatg 240  
 aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcattttg 300

cttcctcaaa caaagacaac gagacattgt ccatgcttag cttcttaaaa gaatcagaac 360  
tagtcaccgt gagctcatta aaagccttct tgggtgttatc act 403

<210> 31493  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31493

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tcttattgac tccagctntg gtcacaaaga atatgacctt taatacaaat attcaaattt 120  
cagcaaaaaga gtcaattgat gcctctagat gagccagttt attgacatat aattattgta 180  
attaatatgt ctatgcagca attaattcta catgaaggac aacttagtag gcacttgatg 240  
caciaaattcc cgtttatgac tcatgctttc tagatgtggt tngaagtgta tgaaagtatg 300  
agggttggtta ctgataaata caattntatc actgcacaag attacattca aattgatnta 360  
atgccccaat aatttatctg gtgtcctgan aaaatatgaa gactcatttt ttttctctct 420  
tttcaatat 429

<210> 31494  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31494

agctttatgt tttattaaaa acttattaag cttaatagag caagtattta agctctataa 60  
aagcctttta attttcttca ttcaagtatt tggcttgtat actatagaag tattcagcca 120  
taccgaatat ccaaaaatac cctcaatacc tttaagaatt taaagcaaac ctcttaaaaa 180  
gtattcaggt atccggctag gccaaatact tgaatgctta aaatccttag gcctataaag 240  
cctctcaaaa gtattcaggt atttgactac gtcgaatacc tgagcactca gaatcattag 300  
gcttataaag cctctcacia gtattcaagt atatggtaag ctgaatacct aaactccttag 360  
actccttagc tctatanagg ccctaaaaat attcatgga 399

<210> 31495

<211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31495

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 caataatata ttgaaacgtg ggccaagtaa tcacattgac aagtgtactt aggaccttac 120  
 ttgaatcagt aagtgaatt gatgtcatta ttgtgaaaaa gtttgcatta taagttcttt 180  
 aattacattc ttttacttca agacacatng acaacttctt gttatgtgtc cacgggacaa 240  
 tattgttggt tgattctctt ctttacgtaa aaagcctgat gttcacatca aggttgcaat 300  
 taacagggtta ttggtaaaat tataacaaat ntattgttta ccaagtgtag tatagcaaca 360  
 aagtatcttt cgttatatac gtttttgtta ttgtggaaac tagtgcaatg aagaaattat 420  
 ccagtaagtt g 431

<210> 31496  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31496

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 aactctgtca aattcattgg acgatatact ttgcacttaa atagttcatc ctttgcctag 120  
 caaagttaat ttgtttatth gagcttattt gttattcact ttattgagtg tgtgttcttt 180  
 gatatttcag tttgcatcag actntggcct ctctgattaa gtatttaaca atacaaagga 240  
 aatgaattag tcaaagaaaa aaatggaaaa aggttactct tccaataaat ttcccttggt 300  
 cacagggatt aaatatgaat actagaaaga cagaatgatt gtgcattttg aatccatgca 360  
 aattgacatg tgggatgttg tgcaaaatgg acatcatatt 400

<210> 31497  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 31497

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 atacttacgg aacattgcc a ctgtcgaata ggcgtggcaa taagagcgat gcggccatgc 120  
 tttcgtagta ttactgatca catggctatg ctcatcatgt atgcagcgcc tgctacatct 180  
 gaaatgatat ctatctgcc a catcgtgaa tttatcttac ttctttaatg tct 233

<210> 31498  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 31498  
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 gtcaaggcct gagagaccat acaagtttcc taccaatttc taataatgtg ggccattaag 120  
 tctatcatat gctgacaata cccgagaagc ccatgaatct cttcgggggc ggagtaggtg 180  
 tctgccatcg ccttggcctt ggctaacaat cggggaagt cttgactccc gtcaagg 237

<210> 31499  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31499

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 gatgaactaa gggacgtaa tatggccacc gatgaagcct tggaatgaga aaccaagaag 120  
 gcccgaagg aagaacacga ccaaaacaag ttttgagggg ctttataggg cagcaatagt 180  
 gagctcaaac tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg 240  
 acgagctaaa ggcttgctt angtcgaaaa gaaatttgtc ccaacagtta aggtgagaat 300  
 gaagggaata tgtgggcat catcgatgag tgcaaagaga agctaaatct agcggcgact 360  
 cacgagcaaa ggctagagga tgagtacgc aagatatcag cagaaaggga agcaaggga 420  
 agggtaattg attcattgca ccaagaggca gcaatgagga tgga 464

<210> 31500  
 <211> 269  
 <212> DNA  
 <213> Glycine max





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aagacccag taacaattcc ttcgttccaa ttcgttaacc gttggatcga ctccaaaatt 180  
ttactggaag tctatagtgt ataagcctgc attttgaccg ctgggatata ctagcaaaca 240  
tccagaactc attctgcact aaactttcca cagccaacca cacacaagca tttttctgca 300  
cttgtgcaaa attctgctgc acaatttcac agcaaaaact ctgcataagt gcagatttcg 360  
aaaatcaccc ttcctctcat ccaatcttgc caaatcaaat ctacaagtcc cacatatgta 420  
taaacatgtc taa 433

<210> 31506  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31506

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cccacttatc ttgcggtata cacaatcatc aactatattt gcctaaagat catatgaagt 120  
aatgacatga tggaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180  
ctaatttaga atgcaaacca tacactttga atgacctgat acaaagggtt agggttgcat 240  
catataaatg ggttcttcaa tgtcacaact tataaatgcg agcttaacat ccatatgatg 300  
tagctctaaa tcataatgag ctacgagtgc cattattgtt ctaaaagaat actttaaaga 360  
tat 363

<210> 31507  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31507

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cttaccctct gaagcacaaa aagaagagaa tgaatatttc caatcaaacg ataaaggaga 120  
aggaaaattt ccaatcaaag aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180  
ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240

agaanattgc caatcaaaga atgggagaaa gaaaaaaaga gaacgataag attgacagag 300  
 agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc tttggaccac 360  
 acaatatctg aacaa 375

<210> 31508  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31508

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 agattggatg aggggaagtg tggttttcga aatctgcatt ntgtgcagat ntttgctgtg 120  
 aaattgtgca gcaggatttt gcacaagtgc agaaaaatac tangcatttg ctggttgtgg 180  
 aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaatgta 240  
 tgcttatgta ctagagactt ccagtagaaa tttggagtcg atccaacggc taacgaattg 300  
 gaa 303

<210> 31509  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31509

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 gcacaacaag ttttccacat ccacaaatca cgtataaacc caccatcccc tgttgccctc 120  
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgttcctctc aacgccgggt 180  
 ccccatcaat cctcccaagc ttccccaaca tccaggtaat tcaacatcca ctcatcacan 240  
 actaacaac caagcaaac agagcanagg cagaaaactc tgcccaaac ccaaaccaaa 300  
 atcacagctc tttctcactt 320

<210> 31510  
 <211> 420  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 31510

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cagcgggttc aacacctgaa cactgtatatt gggaagaccc ataagaagga taaaagtcag 120  
agttgcatat ggaagaagag gtccattttc tttgatcttc cgtactgggtg tgatcttgac 180  
gtagacatt gtattgatgt tatgcatgtg gagaaaaatg tttgtgacag tgtgattggg 240  
acgctcctta acattcaagg caagacgaag gatggcttan ataccgtca agatctagct 300  
gatatgggta taagagcaca gttgtatcca aggtctgatg ggaagaaata ttacttgccc 360  
ctagcctgcc atactntgtc caagaaggag aagataagtt nttgtcagtg tcttcgtcgg 420

<210> 31511  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31511

agctttaga tttatcccaa ttccagggtc ctatgctgac ttgctcccat atctacttga 60  
taattcaatg gtagccataa ccctagccaa ggttcatcaa cctccatttc tccgagaata 120  
cgactcgaac gcaacgtgtg cttgtcacgg agaagccccg gggcgttcca ttgagcatgg 180  
taaggctctg aagcgtaaag tgcaaggctt aattgatgca ggctggctga aatttgacga 240  
gaattgcgtg taaatcctga cattgacaag agatgccaca catggggcaa ttntgaaagc 300  
tgttgttagg tgtccctaata gactcatc 328

<210> 31512  
<211> 179  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31512

atggaatgag cctacacact tatgcttgag tgaacaatg actgcgatga tngattgatg 60  
atacttactt gatctctggc attcttacta gcttatttga tacgtgactc tgatgcggat 120  
gctacaatcg ttgaaaatct gcatgcttgt ataaagcagt ggattgaagc agtccatga 179



tatcagcttc tctgagctta gtcttctttg tctctggaaa attaactggt tggtcatttg 180  
cattccaaca attccttatg atataagcta agtcaatggc tggctcttagg ttttcatagg 240  
aggtaagggc atcagatccc actccctcgc atctacanaa ggctgtgatt aaagctggga 300  
agcctaatac agaaaagtta gactgagcga tcatgggtcat ttgtctatac atcaaaccac 360  
cgatgttcat gtccatcctt gtgaatatgc cat 393

<210> 31516  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31516

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tagctcatga gcacaaacat atagctgaag tcctatgaag gaacatagat ttgttcgcct 120  
ggcagccatc taacatgccg agaatccacc ccagcattgt atgccaaaaa ttggttgtct 180  
gcccttaggc caacaaaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240  
caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaaatact 300  
cgacttggtta ggtaacatt gtcatggtga ggaaggctaa tggaaaatgg cacatgtgca 360  
caaaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcatcg 420  
acaagctagt ggacgatgcg 440

<210> 31517  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 31517

agtaacaata aacctgtcat ggcaattcca ttcaagacaa aagatgtcaa cgaggaaata 60  
acctctaaag acattaagag cctaattggaa caggcaaatt ataccaacaa atacttacia 120  
gcttttaggag aaaccataaa aactaaggta gttcctaaac aaaaatcaat tgaggaaact 180  
tcgccaagaa tccccattga aaaaccttta ttcaaacctt tcaaagttag tgagaaggct 240  
aaaagaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaac 300



<210> 31520  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31520

cttaacattc aatttcgagc gtctcgatat attacgggac acaatttaac atccgagana 60  
 aaagttattg tcgtttgaat atgctcagag gttcaacatt caatttcgag cgtcttgata 120  
 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtttgaa atggctcaga 180  
 gcttcaacaa tcaatttcga gcgtctggat atattacggg actcaatcag acatccgagt 240  
 aaaaagttat tgtcgtttga attggctcag agattcaaca ttcaatttcg agcgtatcca 300  
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aactagttca 360  
 gagcttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 420  
 gtaaaa 426

<210> 31521  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<400> 31521

aggtgaaact tcctgctttt attggtgacc acagagtggg acctggagat atgtcgcggg 60  
 ggtcaggaga ccttgggggac gtcaagtggg gtgctattgc ccaaaaccaa acttgaccaa 120  
 tcccgaccca acccgggcat agtcgggtcag tgagaacatg tgacgtacc 169

<210> 31522  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31522

tatgcgccat atttcctacg aacgttcact tgcacaagac atcctataac taagaaaaat 60  
 gcacccatat acaatcaagg tagcttcatt acctagatta ttacatgta cttccaaggt 120  
 gtatttggtg ttacatcac acacngcctc ttggctaaat ttacatacat gcatacctca 180

agcatttcg ggtaccaaaa attgcacatg cgctcatctt ggtatttcta atacctatac 240  
 atatacaaac ttcatgatga atcttgacta cctacgcaat aagggtgctac atttcatgcn 300  
 tctttttttt tttttttttt 320

<210> 31523  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 31523

agctttttat tcaataacga gcgtcgagat atatcacatg actcaatcct acatccgact 60  
 gaaatgctac atggcgatca aatttgcttg gctctccaac attatacttc gagcgtctcg 120  
 atatattact ggactatata atacatccga ctcaatagta gctgtcgatg acatagctta 180  
 gacattcaac atccatcttc tagtgactcg ttatattact gggctcagat aga 233

<210> 31524  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 31524

atcaacaaga gtcttcacaa ataaccatca tgaacagaa aactatcaga actaccgctc 60  
 atatctccca caaccccata cccacgaaaa tcaaaggaga aagaagccca cccaaacctg 120  
 aaatttcgaa gtccactcg tagccacgca cttcacgact ccaaaaacgc tctcctttcg 180  
 cgatttgggg cataaatgat ggccagaggt tgaagctttg cttggagctt caatggagaa 240  
 tgagggagaa agaaacgcaa cgtgagggag atggagagag aatgcttctg caatctttct 300  
 gctgaatgaa cagagagaga gtcgcttttt ggttcttaaa cggttttctc ctcttttctt 360  
 attattttat tcaagctatg ccacatgtc 389

<210> 31525  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31525

tatattgact acttagaata atactttcta taccatttat tcttttttta taccgcta 60

ttattaaacc ccttctcatg taggttttga ctctctttat ttgttattat attgttgatt 120  
gatatgaaac atttattgat tttatcaatg attaactcttg gtagaataat ttgttagaca 180  
tctttgatga aatcctctct ctaccatatt ctttacattt agaaagttca agattgtatt 240  
taagaaaatc gagctaaata ctactcaaat taatgatttg tcaagatgat tgttataaat 300  
ctatcantaa ataacttaat agctgaaaat agctaggcac tggcaagatc tccgtgttct 360  
tgtattacct ttattttgc 379

<210> 31526  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31526

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tatttcataa ttaaatccaa tggacatatt ctagagacaa ctttaacaat aaaacaagat 120  
ttatttacac aatcactaca aaataaccat aaattggggg aactatacaa gttttggaaa 180  
atgggtttcta tataaaagtt attcgtataa gacgactaac aaactcccc aaatttatag 240  
ttttgcttgt cctccagcaa agaaagaaca gttcacttgt cctcaagtga caaactatag 300  
tgatcacttc aaatggtggt tgcttcacaa ataaattcaa ccatatgaac tcgatatcat 360  
ggactgcttc aatcaattga ttntcacaaa catgcagct 399

<210> 31527  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31527

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attttccacc atggagatgc agtgtaagac aaatgagaag aagtgaaggagg aggcgccatc 120  
cactatggaa taagccatgg aagaaagagt ttcaccacca agatgagcct tggataagat 180  
gcttggagat gatgcttcaa tggaggaaaa gatagatgga gagaaagaga gaggtgggga 240  
gcacgaaatt gaacgaagaa aaaagggaga gaagttgaac tttgagttgt gtctcacaag 300

actctcattc atcaaagtta caacaagtgg tacacatgct tctatTTtata gactatgtag 360  
cttccttgag aagcttcttt gagaaaactt ncttgagaag ct 402

<210> 31528  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 31528  
agcatattga gacgcttgaa attgaaagct gaaactctga gacaccacga cacaccatta 60  
cttcttactc agatgtacga ttgagtaccg gaacatatct agacactcga aattgaatgg 120  
tgaaactgtg aaccattca aacgataata actatTTttca ccgatggctg attgaggacc 180  
ggaacatatc gagacgctca aaaatgaatg gtgaacctct gagcacaatc agacgaccat 240  
aactctttac tcggatgtct gattgagtcc cgtaacatat cgag 284

<210> 31529  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 31529  
tagcttttga tatcattgac acagaattct tgggctttct tccaaaaaga acgacatgat 60  
ttaaattgatc tcaggatctc caagatatcc ggctcaactg attgtcataa cacggcacac 120  
aattgatagt caagcttctc ccattcaggt cttttatcat ctgagacaga attagatgat 180  
atctccaacc agtcatggtg tccttgacca atgaaccaca ac 222

<210> 31530  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31530  
tctaaatatc cgaatcatga tattatngga eggccttatg cataatgtgt ctagttatgc 60  
atatntgccca agtgtgtggt gaattattat tattaaccat tatattggta taaaattggt 120  
tctactaana aatggtgaca attcttcatt ggaaacctta aatgcatata agatgagtat 180







<400> 31535

tcatgctata acagtgaaga aattatccat ggattatgta aacgggggaa acacatactt 60  
tgaatttact ttacgctggc gtgtggaagc actcactoct gtcataattct atgttgacat 120  
accatttata atcttactct tattgaaaaa ttagtaccga cgattctatt gtcatactc 180  
tgagccagcc t 191

<210> 31536

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31536

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cttttccata tcttaattgt tgggggtgtcc aagctttcta tgccaattct ccttgactga 120  
catgtaggta catgggtcta tattgacttg agagttgaca cttgaaagtt ggtataatcc 180  
atctctaaga ttccctttta gtagtgcctt cctgtcagt ttgtccttca catagcagta 240  
gtttgcatca aattcaacaa gagcattatt gtctgcagtt aatttagata cactcaacaa 300  
gttcttggtt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360  
cgagcctgat gccaatatgc tcaatctttt accattgcc aactaacaag aattcttacc 420  
attgctttca ctgagatctt ggagttctca ttntgatgag tcacatga 468

<210> 31537

<211> 404

<212> DNA

<213> Glycine max

<400> 31537

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcgggc gggcgatggg 60  
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gctcacgtac tctcacgtag cccatatact cgtttctctc aacaccgggt 180  
ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca cacagcacat 240  
gctatcacia ccaagcaaaa cagagcatag gcagaaaact ctgccaaaac accaaccaat 300  
aatcacagct tttcccactc aaagacccca gtaacaattc cttcgatcca attcggttaac 360

cgttggatcg actccaaaat ttactggaag tctctagtag ataa

404

<210> 31538  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31538

tggttaagaaa agagcaaacac acacagtcac ctaataagta tcaagtattt aaaaaaaaaa 60  
ctgtaagtat aaaatagaag tgtgtgtgct gctattttaag aaaaagacaa gctaagtgcg 120  
gaaaggcaag taatagagtt ggaataaaaa taaaaggtt gatctatgta tgaatgctct 180  
cttagaacct aagcttttgc atcctagaaa aaccatgaat tgattgcagc ccagcctcgt 240  
tacaagccta gtaaagtcct tcagattcaa tttgtgtggt cttgactata tggcatgaga 300  
tgaattgcaa agattaagac ttgtgttagt tgttgattgt tgaataagcc taaacacttg 360  
tgtttgagtg aaacagtagc tgtgtgacct tggttaatga tccttccttg atatctnttg 420  
ctcttactag cttatttcag ttgtgttccct taataatcat gt 462

<210> 31539  
<211> 378  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31539

agcttatgaa gcatcaatag accttaagaa aatagtccat ttaggacaat aaacaagaaa 60  
attaatgaga gttctcctag ggtgatcagt ccacccatca gccatcatag tacatctagt 120  
ttccttccaa acttcttggt aaattttaac aagcttcctc cttcatcaa accatttata 180  
taacaaagga ccacaaattc tataaaaaaa aatggagat ttatacacg gactcatgct 240  
actaataaca tcaatcatag gttgataata tgtcgagta attgcattaa atggcactat 300  
agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 360  
caagacactc ttcaagct 378

<210> 31540  
<211> 445

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31540

ctataaatag ggggagaagt gaagtagaaa atggttcagc cccttaggca cttctctctc 60  
tttcgaattt gcttaggaaa attgtttccg tgaagaaaat ccaagccgag gcgcttccgt 120  
aacgtttccg tgagtgattt cgtgaagggt ttcgaccgtt cttcgacgtt cttcattcgt 180  
tcttcacgtt tcttcagtct tcaacgggta agtacctcaa accaagcttt tcgattcatt 240  
ctatgtaccc gtggtggtcc acattttggt tcatgtattt ttattctcgt ttcatttatt 300  
ttttataccc ccttttgacg tgcttaagcc attntattta agtcatttct cgcttaacct 360  
anaaataaaa taaatttcca ccgatcgttt gaattgtatt atccattaac tttggttgaa 420  
atgaatntcg accgatcggt catgc 445

<210> 31541  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31541

gatgacntgg tcttcaccga cgaaaggatc aaagtgagtc tattaagagg caaatttgat 60  
catcatactt tgataaatgc caaaaaaaaa ctagggcaaa tgaagagggt gagaatgagg 120  
gacaagccca tgctgtgact gccattccta tacagctaag tttcccacca acccaacaat 180  
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240  
catccctaaa atcaaccaca aagcctacct actgcacttc caatgacaaa caccaccttt 300  
agcgtaaacc ataacaccaa ccaagaaatg aattttgcag cgagaaagcc ttagaattca 360  
ccccaattcc agtgtcctat gctgacttgc tcccatatct acttgataat tcaatggtag 420  
ccataacccc aaccaaggtt catcaacctc catttctccg agaatac 467

<210> 31542  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31542

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 agcattatgt gaatgatttt gtggacattg tgcttgccat tcaggccaca gatntccaga 120  
 atgatcaaac attctggaag aagtttgatc atggcaagat ctatcttcat attgtttcta 180  
 cctatgtatg catattgatg atctcttagc ttattgttta tcaagtgtta gaaatatatt 240  
 ctctcgact cattgtttta cactattctt tattagttac aattcggata gattctaata 300  
 ctagttaagg gtgaggacca tcacatcata agtgggcaca cttatcttct 350

<210> 31543

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31543

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 caattatgct ttcagcacca attcaaatga tcttcctaga tgtactatct cataggataa 120  
 accaaccaaa ttacaagagc ttcatatcca cactatgggt gccctgctgc caacattcgg 180  
 agaagtaaaa tatgagatat acttgtcttt tggttatagt agattctcac taattggtat 240  
 aatttgata gaattgtaat gattgatgca ctgttacaat gtttattctt atacattgggt 300  
 agaatgttta ctttggaata tatntattgc gacaacatta ngtaataacc aaaataagtc 360  
 tcattctttg gtaggattaa cttaatgatt ntacattctt gttcagagtct cgtattctga 420  
 gttaaagtact gtcacatca 439

<210> 31544

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31544

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 tgtcttactg gtttaacccc atcctctaaa tttattcaat gcatacatgt ggatgggcta 120  
 atacctggaa tgtccgccag ggtctagcct atagcctttt tatgcttctt gagaatagat 180

aacagtttct cctcttgctc atccgcaagg gaggcagata taattattgg aaaacttttg 240  
ctatcatcca agtaagcata atttaaatnt gatggtagag gcttcaattc tgggtgtgggt 300  
ggctggataa tggtagaaaag agatgggttc tcagcctgta ccttataaag aaagtcagag 360  
gtatgtgtac ttncctganac anntggtagt ctatctaac 399

<210> 31545  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31545

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caatgattgt gataaaaaga accataatga gttatatagg gtgtttactt ttataaccatt 120  
aagctttgaa aggttccctt gcatcattat ggaggccaat aaaaaattaa ataaattatt 180  
taaccttcca tgtgaagata tcaaaccctc aaactaatcc annatttctc tcatttttct 240  
tttgtaaaat ttgacatang aagggaatgc caaaccaagt ccctaatttc ttcaattatg 300  
ggaaaaaaga aagcatatct aggtggatag aacaaaanat caatgtatat gaatcaatta 360  
atcacagaac aagaaataaa aataaaaaaa tatcanaaca aatat 405

<210> 31546  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31546

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agaaaaggag aaaatgacta tagaagaagg aggggtttccc ctattagaga tgttcaggct 120  
ttgagtgtat tcaataaaga gctatgagtc tctactgcatt tttctccttt gcttcctatt 180  
ccttttatag gccaaaaata tottaaaatt tatgcgacct cgcgttaagt gcacccttct 240  
gagcttagta agtatgacgg tgtgatcatg cactgagcac gacagcgtct gggcttattg 300  
agtatggcgg caatagctcg cttagcgcgg gattcgtgct aaacacgcct ttgggctcct 360  
atcgggatct tnatgtaat a 381

<210> 31547  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31547

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ttatggacag atatggaaga gtgtacaaac tcctagaatg tgtggagcat tctacagaat 120  
taatcttcac cttatgatac aagaaatctc caccatttat tggggagatg gagtagtata 180  
aataagggtta agaaccttca ttcctatcca tccctgataa gagtgaatcc acttcttata 240  
gtgagaaaaa gcctctctga gagagaagat atatagcttg ggaagtcttt attctcaagc 300  
ttgagtgcgc caccgtagag tgagtccatc catgtagaga gcctctctga gagagaagat 360  
aaataacttg agatgtttct atcctcaagc ttgagtaagc ctctctgaga gagaagatat 420  
atagctcgag aagtctctat cctcaa 446

<210> 31548  
<211> 291  
<212> DNA  
<213> Glycine max  
  
<400> 31548

ttcacttttc tgcgtggaaa atataattta gttttaaaat ccagaaacgc gcataagata 60  
taatctggat tatgttatgt gaataccgag ttgtgaatta tgaataatcc ggtttttttt 120  
ttttaggaaa agaatttata atatgaattc tgtctgatat taattgtgat ataaatcatt 180  
aaatccctta taaccaaggt agccatacca tattaaggaa ttggcaaata accgagtgcc 240  
acaaataatt ctgattacat gtcaatttta tgtgatatca ttaatcatat t 291

<210> 31549  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<400> 31549

tccacttgta tattattgca aacataataa aagctttctg tttttccctc ccatggatgt 60  
agccttactc aagggtgaacc acgtaaatct gtttgtgtgt tctttctctc atctctttct 120





<210> 31552  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31552

agctttctta tctgnnttaa gtccaagccc ataaataaaa taaaatctag ataagatcta 60  
 cataaaataa tatctagatg tgataaaatc tagatatgat aagataaaat ctagatgaaa 120  
 tacaatttag ataagataag atttggtaga ataaaattgt ctgctctctt caagtccaag 180  
 cccaattccg gattcaagcc caattactta caattctcct gacattaaat taaacacaca 240  
 caattaatcc agtaggcca aatgataaaa ctacataatt aatttgacaa ttaatgctaa 300  
 tcaataatta caatggtgac aaaaagggtt aagacatatg agaaaatgat gacacatcag 360  
 tgaggcacat gaccatccag aatatgcaat ttcagc 396

<210> 31553  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31553

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 ggggttgagaa gtgaaaatga gaatggngta attttgagat aaactctcat ctcaaacaag 120  
 tctataacat taatntaaac ttactcaaac tgggttttacg gcgaaaactc caccgattca 180  
 aaatttgacc ctcaacacc caattttacc tagaaatggc tcttgctttc acatttgtca 240  
 ctcatnttc tcatttgctc tgcccaagct ntctacaag tcctaattga cattntanac 300  
 taggatcaac tcactttaga ctccaattta cactaacccc aaatntagct tctctaaccc 360  
 tcaaaatctc acactgttct acctacaaca ttgtcattct cacatntagc cctaaattaa 420  
 ctgtcccat catctctacc 440

<210> 31554  
 <211> 409  
 <212> DNA  
 <213> Glycine max

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<223>      unsure at all n locations
<400>      31554
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ttacaaaaag	tagtaaagta	caacaaaagt	gaaatttctt	ctttaaaaaa	agaacctaaa	180
ttcatcgtgt	cacaactctt	aagttaaggt	gttaagaaat	aaatttgtcc	aatggcttta	240
aacttcttaa	atttcctctt	gaaagagtag	aaataaaatg	ttcaatcatt	ttaagttaaa	300
tcanatttaa	aacaatatta	catgaattca	aaatagtttg	accaaattga	ttaagctgaa	360
naaactgatt	acctttccca	aanataaac	aatggttatg	aaaatgata		409

<210>	31555
<211>	464
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31555
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ctt	caactgc	aata	acctat	ttg	ctcatga	ca	acaatcaa	ggt	gccaaat	gct	ccatgcc	180
tgt	tgccaa	tatt	tggtta	cac	ggtgtca	cat	gatatgt	tag	gaaaacc	act	catggct	240
aag	ttcaaga	cat	gattggc	ca	gcaatga	agt	cctttgc	cga	atgccaa	cg	gtaagaga	300
atg	agcaatt	gtg	cctctct	ttg	caaaatg	cc	ataaacac	aatt	ctccaa	cct	tggtgtc	360
gt	acttgtac	aga	acatcca	ac	angctcaa	ata	acaatgc	ttg	gagttga	tg	ctgcacct	420
g	ccctacac	ttg	caattgt	act	ttaacca	ct	cttcatac	ct	ac			464

<210>	31556
<211>	329
<212>	DNA
<213>	Glycine max

<400> 31556

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gaagagacgg ttcaccccat gatgcacttc tctctctatc caatgtgcta cggaccatta 120

tgtccatgag gaaactccaa gccgacgcg ttagcgaacg ttgacgtgag taattacgtg 180  
aagattctcg agcggttcttc aaagattgat cgctcgctct tcggttcaata cgatgggtcaa 240  
ttcattatat gcatccgagg tgctccacat ggaggggcat gcatgatcat cctctttatc 300  
agatactctt tataccctct attgacatg 329

<210> 31557  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31557

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agaggagat tgtaggtct aaatgggtcca cagaccactg gatgacctat tcccaccttg 180  
gattttgatg attataaagg tataaattat tggtagacta atgatttatt gttaagtga 240  
catgacctac tacataaatg agcacacttg gtattaaatt gtattctaca gctctagtga 300  
gtatgcatcc aacgggctat taaagtacct gcatccactt attgtgaaac tagtggtcac 360  
aactgagtt gtttttatc gtgttcattg gacttanatc acttatacac tctattttat 420  
atctttataa gtgatgtcca atgaagtaca 450

<210> 31558  
<211> 410  
<212> DNA  
<213> Glycine max  
<400> 31558

agcttggtgt ttgaagtcta atccatcaca aaacacaaa tacacatgaa gaacaaatta 60  
aatgcataca gtcatcaaat catagaaatc aattctaaga acataaaaaa tggctaaatt 120  
accaaacaca aaccatcaat tcatgacaac aagaaaaagt attttaaggt aattacaact 180  
cgtctaataa aattaaaaac aattataata aatcaaatg taaactacac aattaacttg 240  
agatctaaga tcaaccctat tactcacaac caaacatcca ttataaatca ttatctaata 300  
cctaacgtta ccaatataac caagatgggg aaaaggcgaa aataatcaat atcatatagt 360

aaaagagaat ggaaaggtag ggaacactca tctaacaaac acatagataa 410

<210> 31559  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31559

gtgtctntnt cctttattct tcatgtcatg attgaatgat tcattatgtc tttccttctc 60  
 ccttctttnt tgggtccataa caatgattat acaactcgtc attttctctc tatgctttga 120  
 ttgaatttca tacacaatta ttttattaat ccaaaccata taaattatta cgtgtgtgtga 180  
 atataaaagc atatttagta aaaaatattg tttatatgag gataaaaataa taaatgttga 240  
 tatttaaatt acataagtac ataaagctaa tgaacacatg tcttttaaact ctaatgctag 300  
 atatacattg catgataatg ccatatatag tggttagtca tgtcttaact tatatatatg 360  
 gattggataa acagaataat tggatatgaa tacgaataag agcataagac gaggaggatg 420  
 aa 422

<210> 31560  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <400> 31560

ggagttgggc cttaacgtgg tattgaaact tagcaatttg gtggtggagc tgcattgtag 60  
 caacaaggat tagacttctg accacttggg gacaaaggct ctcaagccaa gttaagaacc 120  
 aactcttctt taaattcaag ctattaggtg tagttgaatg gttttatatt ttttaacaaaa 180  
 gttgtacttt atttgcagtt gaatggcttc catgtaagct tgtacccttg aatattaaga 240  
 gagattatct aataggcatg attttttttaa tattattcag ttattcaata atgactgtaa 300  
 ttttcatatg cttgattctt ttcttaatta ttgtaattat ttatgtttta atattttctt 360  
 tagatgtcaa aggagttgtg acaactatat cttccattag agattccatt acagagtatt 420  
 tcagggtgga aaatca 436

<210> 31561  
 <211> 375

<212> DNA  
<213> Glycine max

<400> 31561

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atacaacgta gtgactggga ataccctggc gacacccaac ttaatcgctt tgcattgacat   60
accactctcg caactggcga atagctaaga tgcccgccacc gatcgccctt acaaacagtt  120
gcgcagtcctg aatggcggaat ggcgcttgat gccgtatttt ctccttacgc atctgtgcgg  180
tatttcacac cgcatatggg gcactctcaa gacaatctga tctgatgccg catatttaag  240
ccagccccga taccgcgcaa caccgcgtga cgcgaaacca ttgaagccgt attaaatata  300
aatcgacaat atgtatgtat taggatgttc tatcgataac cccgtatttc gtagccctgc  360
aatgatacta gagct                                     375
```

<210> 31562  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 31562

```
aagataggaa cgggtatgac cacacccgtc cgtgaagaat taatggccct gccaaaaaac   60
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagttc tgacatcgta  120
caacacagat tacctctaaa tcccagagtgt tccccggtaa aacaaaagct gaggaggatg  180
aagcccgaga cggtcttcac aataaataaa agagggttaag aaacaatttg acgctggctt  240
tctggctggt gctcggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga  300
tggaagagta tgaatgtgcg tggat                                     325
```

<210> 31563  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31563

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nttgctcctt ttataaaaag agaagttctg aaactcatca cgttgtctaa aaaagccttg   60
agggtgatcc aagtgcctg atcattcatt agcatattca tgagttgccc caaccaaaaca  120
tagtccgcca cgtcccgctt ccatccgcac ccgttaagga actcgttccc ttacaaaag  180
```

acaagggaaa gattgatcta cttgaagaga ggctaagagc ggtagaaggc ctcggaact 240  
 attcgttctt ggatttagcg gatctgtgtt tggtagctga catcatcatt ccccccaagt 300  
 ttaaagtacc agaatttgat aaatataaag ggacgacgtg tccaataagt catcttcgga 360  
 tgtactgccg aaggatgggg gcatattcta cggacgaata agctgtaatg cacttttttc 420  
 aagacagctt agctggaaca gcagt 445

<210> 31564  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31564

ngagttgagg aagtgtagaa gggtttaact tcttgctntt attctttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg nggtgaggag accttgagga cgtcaggtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaaactt gattgatatg tgagatatgg 300  
 tctctggtaa tcgactacca aggggtggga atcgattaca aggcttaaaa atgaagacag 360  
 gacgctaaga tggctctctg taatcgatta ccaaggggtg taatcgatta ccangcttga 420  
 aaacgaagtc aag 433

<210> 31565  
 <211> 164  
 <212> DNA  
 <213> Glycine max

<400> 31565

ttttttatcc tcattggctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
 ctggactctc agccacttat gatagccgcc gatgatccca ttactgtttc ccctaagctc 120  
 tctgtccttt cttcatgccg catcccatgc ottgcgaact cctt 164

<210> 31566  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31566

tggtaatcaa ttaanacaaa gagttttatg tgctaaagaa gtttctaact ttagaaacaa 60  
 tcttatttct tctacatgat gatgcatggt gtacatatga aaatatagag actaagattc 120  
 aacaatcaat acaacaatca atacaaatgt cactcaaaga gttgggtcatg tgaaagacaa 180  
 aacttcttca agcttcttca tgttgctcct cctatctctt acaccttatt cttctatctt 240  
 atctttgaca cttctttttt gtacattata ataactgaaa gtccaatgac cttgattata 300  
 tatacttttt ttaatgaaat agtgaaatac ggtgagacac tatcctttta tttctgaggt 360  
 aacttctcta cact 374

<210> 31567  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31567

nggatattaa ttgtatgata tatactattg aacgctcgct acaacatata attctactct 60  
 ttcagtgaat ggagcagcat tcaactaggc ttgtctgtta tccatttaca aactgtagtt 120  
 agaacttaat tcataatgat aagggtgctac tngtctatat tgcaaaaacta atcttctgaa 180  
 gcggggttgg ttcatgcgta cgaaatatga gaaataagac aggatggaaa gatcatcgat 240  
 ctaggagctt tcttcatatt atgtgtccaa tggatgcata ctgaattgta ttagcctctt 300  
 gaatgatgat atattgtcat ttactatacg cagtgcgat gtttctggag tttcaacaga 360  
 atctatgcag ctctcatttg atgcccgatg gaatagtgtta cctacaatac t 411

<210> 31568  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 31568

acgagtgaca cgttgaaacg tgaacgttga aacggagcct aaacccactg tgacctggtg 60  
 ccctctttta tggccccggt ttttgaaaac caaatcctct cacggatgac caacttaagc 120  
 ctggacgagt ctttgtgatt tcatgtgtgt gcatgctctt tattgcttat gagaaggaaa 180



atacagttga attgggtgag gcatgactgt gacttgatct cacccatagc aattgggtggt 240  
 ggagtgcacag acatgtccat gtgatacccc ctaccccttc attttactac tacggactaa 300  
 agacattcat attcatcaaa gttcttttcaa ccactcctcg caggataaag gtcacactt 360  
 atttctttac atactctact ctgccaatca atataatcat ttcaatcgac acggcgctag 420  
 ctctaccat aacaagaacg atccacggc 449

<210> 31569  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 31569  
 agcttttgtt tattgtgatg aggtacaagc cctaaaggca gagcttgaaa gagcccgagt 60  
 agtcgaagag aagttcaagt ccatagccat caaagtgtga aaagagtatg atgaactaag 120  
 ggacgtcaat atggccaccg gtgaagcctt ggaacgagaa accaagaagg cccgaaggaa 180  
 gaacacgtgc aagcaaagtt ttgaggtgct ctataaggca gccatagtaa gctcaagctc 240  
 cgaagaggtg aaaggaatca tcacgggtca aaggcatgat cttgaaggac gag 293

<210> 31570  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31570

taatctttta caaaggacca tgacttacgc ctaggaatct attttntggt tntgaatgta 60  
 taaaggcttg aatattacga catgttttgag aggtttttga ttagaattta aattggctgc 120  
 ctcatgatga ataccttgca cctaggtagc atggaaaata cctttcaatg gtatgtatat 180  
 atgtgaatat atatagcatg gaaatgcctt gcagagtgtg taaatatatg gcataaatat 240  
 accttgcaaa gtgtgaatat atagcaaata atgcatttca aaaatctata tatgtaaaaa 300  
 atgcgtttca aaatatgtat gtttgtaagt aggtatgcat tatttccaac taatttctaa 360  
 tgccatctac tatttgacgg ggttgcgccc acaagacacc tagtggaccc ggagaagtcc 420  
 aacatggccc ttggtgtttc agctctagtt acgggcctct atc 463



<223> unsure at all n locations  
<400> 31573

```

agcctttcat ttaagtattc taagataaat tagatataat acaaatttgg taacacacat   60
gaagtctctgt gacacaaggg acagtggagg ataaaacggg gagcacgata aagtatagga  120
agagtatcac cttaaaactat ctatctctgg tgccatggct tcatcaagtg tctttgagga  180
atggcttggc atcccatatc cagcttggat atntcttaca tctggatggg taggaggagg  240
agtaaataatt ggagctgcat cttgggaacg cttacgaaaa actactccag atccgctgca  300
tttatataat ccaacacaag atattatgat acgatctcat ggtcattgaa tattaactca  360
ccatgtgaat atgggataca gatatcgatg caatcttcta tcctgt                    406

```

<210> 31574  
<211> 427  
<212> DNA  
<213> Glycine max

```

<400> 31574
taatgaattt atacgataa taattcaata ttatatatag ttgcagctat tttagaagtt   60
taaataatat ataggagaat aatataaaag tttagtacac cgtattcaat cataaataat  120
tatttatgat aaatttatta atttctataa taattaactt aaaaattata ttaataataa  180
ttcttatatt gatgattatg taaacttttg cgcaaataat acatgtatat taaactcatt  240
ctgaaatctt aaggattaat taattgattc tagtaatact atcacactgc tgacaagttg  300
gagtaacaat ggtgaaattt caagacaaaa gtttgattaa ttaaaattaa agggagataa  360
tttacgcata gagacctatg cttaagaatt atgatcaata gtaattccta cattattcgt  420
attgaat                                           427

```

<210> 31575  
<211> 232  
<212> DNA  
<213> Glycine max

```

<400> 31575
tgcatgaatc tctgaattat ggaatgaatg catgaattta aggatgatga atgccattgt   60
tgattataaa tagccactta gcccaaaatc taaccatgtg catgaatgat ttatcccttg  120
cactcagctt gagctgaatg aatgtttgat tgattgaacc ttgagcctgc ataagttatc  180

```

ttctgctacc ttgtcttaag ttgacgagag catgattcat agaaagattt gg 232

<210> 31576  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31576

tgtaatacat tgattgctct atatatctca tggctcttgg attctaagaa aaaccaaatt 60  
cctttgaagt catgtcacia tataagcctt gatcgagttc ttgtgattct catgtgtgtg 120  
catgctcttt attgcttatg agaaggaaaa taaagttgaa ttgtgtgatg catgattgtg 180  
agttgatatc acctaaagta attggtgggt gagtgacaga catgtacaat gtgataccct 240  
ctaccctca catatatact aataaggaat aaaaaaattt aaatattaat tacaagtatg 300  
tttaagacia gtctttcana gggaaanaag gtcacattc attntctttt acatcatatt 360  
caaatntgtc caaataaata ataaagtatt ctgcaatcaa acaaggctgt ctaagcttca 420  
tacaattaat atagaatctg gatcctaatt 449

<210> 31577  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31577

ttctttttct tctttctctg ntgcgtcatg ttcattcatga actttaagag atatgatcaa 60  
acattngatt tttagattct aatgtatgat agataatctg ttagaaaaga aatatcactt 120  
tcttacatag atcttactac ttcaagacat taatatctaa ttgttaactt tggattcatt 180  
caaaaagata tacactatta caaaagttag atacattaac tgaaaaaaat tgtgtcagat 240  
tatcccttta cataaaaaatt aaattgctaa tatagatatc gatacatctg gtaataatac 300  
gagacattat act 313

<210> 31578  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31578

tacgatcatt ccaagtggat cctatataag attgaacaat atatttttaga naaattacgg 60  
ataacaatct tctttttgtt taattgaaga gaaattttaa agagagaaat gatcaattga 120  
ctnttagaaa taacaattta aaacattatg ttctttcatt ttttttttca atttaaattt 180  
cattctcaac aatgggtattc aataatttga aaccacgtga atcagtttac cctccaaaaa 240  
gcacgtaaat catgtgtaca tactcataaa ttcattcttt caatgtgcga agattggaga 300  
gaccattact tttcattgga agtaattttg ttggacgagg acataactaac aaatagacgt 360  
ggatcgtaaa attcacattc ggttgcgctt ccccaact 398

<210> 31579  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31579

agcttttgat atttataggc tttcttcttc aagtgtttgt tgtctctaaa tgaatagatt 60  
tcttcacttg agttcacgta tgaagatatg gtcattggga cattaaatgc aagtcctttt 120  
catgttgaaa aaccactctc tttagcttcc ttgaagaaca tttaaggaga acaccacttg 180  
cttttcatca aagcaagtct atcatagcan gagaggcttt tcgatattgc ttagaatttc 240  
aaagtgttga atttcattta tggtttcttag gattaaaaan atcctaagggt aatgtcttat 300  
aagatagttc ttggcaaatg aatctcaaac acataatatt aaatgaagtc taaatgattt 360  
cttaaatgat gtatcagata ccataacata tat 393

<210> 31580  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 31580

tttactttga tctctttgtg cgtttgtgca catgtttctt tatcacccgt gtgagtgttt 60  
gtgattcttt tcacacctta ggctccctctt gtatactgag gaatgctaac aacatattgt 120  
tgtaatcact ctgtaatatt gacaaaaatt attaaaaatc acacaatctt gtgggtccta 180



<210> 31583  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31583

tagcttttat tttcaattta gagagtctcg atatgttacg agactcaatc ggacatctaa 60  
 gtataaagtt attgtcgttt gaattctata tgagcttcog ttttcaattt ggagcgtctc 120  
 gatataattac aggactcaat cgtacatcta agtataaagt tattgtcggt tgaattttct 180  
 cagagcttct gttctcaatt tcgagcgtct ccatatatta cgggactcaa tcggacatcc 240  
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300  
 tcgatatatt acaggactca attagaca 328

<210> 31584  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31584

ntctagctnt tcattggtgt attttgatct ccttttggtg ctctataatg tgggaatgtg 60  
 ctcaaatatg tggngcaatt ntggtttggt ttcttgcttg attgggttgg attggggggtt 120  
 tgtatgggat ggccctatgc ctataattgc atttgaaaca atgggacatg ccacattgtc 180  
 cccgttctct tgctattgat acctaaacgc ggcgccacca agtggttcggt gaaatgctc 240  
 aatggcatta gcgcgtgact nttgtaagga aacaacccat ggnngcatth ggtttgcaca 300  
 tattntctat tttttgggac atgcattcat tcccgaagag gctagagtaa ttgccccaca 360  
 tatatcctan gcctangaac cannagtntt atgcanaaga acacaagagg aagtgcattg 420  
 tgggtaaagt tactc 435

<210> 31585  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31585

ttagcttatt ctgtaagtcc accaataaaa aaatgttttt attagtattt aaaaagtaaa 60  
 aaatgcctca tatagacatt gataaaaaaa atcatatggt agaaaaaaa tccaacatat 120  
 ttaaaattta aaaagtaaaa aaattctctt aaaattttct ttaaattctcg tttattattg 180  
 ggtgatcgtg caactatctg attctaaaag ataaaaataat ttacatggtg atgacatacg 240  
 ataaacttat caccattaga gactaattta catatataga tgtgaacttt ntaagaatta 300  
 gatcaagttg tggcgaattc tatggtgaat cacccaaaca agtgttgtat aatgaaccac 360  
 tattatttat catcagattg atctcaattt atcctctcat nctaca 406

<210> 31586  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 31586  
 tctccctctt tccctataa atagggggag gagggaagaa catttatggt caaccctcct 60  
 ggtatctgag aatcacttaa aattactgag aaaaattggt tccatgatga taatccaagc 120  
 cgaggctgct tcgttacgcg tccgaaacgt ttgctgggt gatcccgga ggatgtcca 180  
 ccgatcttcg tcattcttcg ttogttcttc ggctttcttc ggtcttcaac cggcaagttc 240  
 ccgaaatcga acttttcaat gcattctatg tacccttagt ggaccccaact tgtttggcgt 300  
 gcttttataat atatttcatt tactttccgt acccgttttg acgtgcttta gtcatttatt 360  
 taagtcattt tctcgcctaa tcagaaaata aaatatattt ccaactgatca tttgaattgt 420  
 aacat 425

<210> 31587  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31587

gttcacttgc acaagacatt cttataacta agaaaaatgc acccatatac aatcaaggca 60  
 ccttcgttac caagattatt tacatgtact tccaagggtg atttggtacc tacatcacat 120  
 gcacttcctt ggctaaatnt acatacatgc atactcaaag catttggggg accaaatatt 180



gcacatgtgc acattccggg atttctaata ttacgcata taaaacttt gtgatgaatc 240  
 ttggctatct acacaataag gtgatacatt tcatgcttta ttcaaagtgt ttgctacct 300  
 aaagccgcat gcgaattcaa gtata 325

<210> 31588  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31588

gcttagcttc taaggaagtt ttctcaaaga agcttctcaa ggaatttttc tcaagagagc 60  
 ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt tgtaactttg 120  
 atgaatgaga gtcttgtgag acacaactca nagttcaact tctctccctc ttttattcct 180  
 tcaatttcgt gctccccctc tctctctttc ttttctcca ttaaagcacc ctcttcaagc 240  
 ttcttatcca aggcaattct tagtggtgaa gctccttctt cctcggttta ttccctagtg 300  
 gatggtgcct cccctctcct cttctccttt tcttccggtt gcattctacat ggtgtaaaat 360  
 caccattgaa ggacctcatt gaagctcaaa gatccagcct ctatagaagc tccacaagaa 420  
 agcttccatc atttcggccc aactcttta aagatgctca ct 462

<210> 31589  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <400> 31589

tcatcacct aaggccaagc tgcattggtg ttctgggcttt cgactacaac tgcttagaca 60  
 taagggggga gatcgatctc ccaattcaaa ttggaccca catatgctaa attactttcc 120  
 aagtgatgta cataaaccct acctatagat gcttactagg ccggccttgg attcatttag 180  
 taggagtggg ccttcatgc tacaacaaac gctgaaattt gtggtggagg ggcaattaat 240  
 tatagtcttg ggagaagagg acattcttct gagttttcct tcttctacat cttacaagga 300  
 ggccgtggag gaatccttgg agatgttctt tcaagccttg gaggtggtaa gcattgctat 360  
 gtggagtctc cccagtaga accaccctca tctagggctg cattaatggt agctcaggtg 420  
 atgctagggc atcaataaag gctggaatg 449

<210> 31590  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31590

agcttgaaga tgaagctatc ttgcgaagca ttggatgaga ttttgagtga ttatgagggt 60  
 tctagagggtg gaggagactt cccactacc tggtattctg taatctttca ctttctcttc 120  
 tctttgttgt aaaagaagtc tccctgctat ggagagctaa atcctcaatt ggttcttctc 180  
 atggagtact tgatgtaaact acttttatat ctatctgatg atattttatg tgttctctat 240  
 actatcaata cttcatgtta gtatgttttt gccttgatca cgtagatgca tgctgagtta 300  
 gggtcactca acattgngaa atgggttgat ccttagaact tgataggacg gngttagttt 360  
 atcgtattgt cacgagggat c 381

<210> 31591  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31591

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 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120  
 aacgccccag catttacgca acgagcataa tgtaaactt tacggtttta aaagctctat 180  
 agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt ttgttttttg 240  
 aatttataat acaaggatct ttcttcatct gttcctacgt ctctacccat tctcattcat 300  
 ttgcatgttt acttcttttt ctgaaacgac agatccgatg acgagtcccc cgaagggtact 360  
 aatacctgng accgcctat cgacttcgag caagaaatga gtcanacgga agatgaagga 420  
 aacaaggatg tgggaacttc ccagaaatta gaaagaatgg g 461

<210> 31592  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31592

agctttgttg cattccttgt cactgccatt gtctctgaac gacctttgtt gctttccttg 60  
caaacattcc tttggcacga cctttgtttc tagcttcgga taccctgaga ctagggttag 120  
gccctttgat ttgcactata tcagaggtga gtgagcctat tggaaattac ccctttgttc 180  
ttagtcatta ttctttgtgt tgggtgtgat gaagctccat tgtttagct ttaggacttg 240  
tacttgctat ttctttcatc cacagaagga gcattgtagg taaaaatttg cttttcttgt 300  
ataacatttc actanacata tnggtgtatt gcattgggttt gttctatact tgggtgtgtgt 360  
ataattgaat acaaattttg gatttgctaa tcccttaaaa aactgtggtt gtaatc 416

<210> 31593  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31593

gagatgagga agtgtagacg ggtgaaactt cctgctttta ttcgttgacc acagagtggg 60  
acttgagat atgtcgcggg ggtcaggaga ccttggggac gtcaagtggg gtgctatttc 120  
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
aacaaggagg cttgtggtgg ctggctagct gtgaatcttg tgtgatatat gggttatggc 300  
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttagaaa tgaagacagg 360  
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac c 411

<210> 31594  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31594

tccttaccct cggaagcaaa aaagaagaga aggaaaattt ccaatccaag gaaaaaggag 60  
aaagaaaatt tccaatcaaa gaggaagcca aaaaaaggag agaaggaaaa tttccaatca 120



<223> unsure at all n locations  
 <400> 31597

tataagaaca aaattgcctt aatcatttac aaatatgcat gtgaattang acgcatcaac 60  
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaanaacatg 300  
 caaagtcgta cgtgcacaca taattgaccc ataatatata actgaatatc cgacgaaact 360  
 aacaacatta acaaattaac acaactaaca aatgaacaat accaacaaaa ctagcataac 420  
 ctaagaacac ttcccccc 437

<210> 31598  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 31598  
 ttcttttaaac tctgtacaac aatgaagctc tgataccact tgttaaacia gtggcctcag 60  
 atatcttaag aaggggggggt tgaattaaga tattccaaac ttttctcta attaaaaatc 120  
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaatt 180  
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240  
 gagaacatgc aaactcagtt ttatacttgt tcggccacac ccttgtgcct acgtacagtc 300  
 cccaagcaac ccgcttgaga gttccactaa cttgtaaatt ccttttacia gttctaaaca 360  
 ca 362

<210> 31599  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 31599  
 agcctcagac aggtgcacga aagacttcgc agacgatgga acttagtccg ctccggagta 60  
 tgacagtcac cgctttatga gcgctgtaca ccaacatcgc tatgaggcca tcaacggatg 120



atgacgggtca tgttctgccg ctcattccg

449

<210> 31602  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 31602

attatctttt agtaatcaat ctctaaattt taggatgaaa tgtatgaatg tggacatgat 60  
gaacgccatg gttgtatata caaaccaatt gaccaaaaag cttaccttga attataattg 120  
tattctttgc accctttgtg agccaaatta aagttgcaaa attgaaccct gaacttgaat 180  
gactatcttc aaataccttg cttagattct acgatagcat atgggtcaag gcaatttacc 240  
tcaacattgg gggagttaac ggggatgtaa agtggaatgt aaagctcatc aacacacaca 300  
acacataagt tgtgttaaaa aaaa 324

<210> 31603  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31603

ntgagccaaa atcctgactc accatanacc ttgacctcag gtgataatgc caatccttac 60  
cctcggagc aaaaaagaat agaggggaaa ttccaatca aagaaaaaga gaaggataat 120  
ttccaatgaa agcaaaaaag aaatgaagga atattcccca atcaaagagt gggagatagc 180  
aaaaaaagga aaagaaggaa aattcccca tcaaagagtg ggagatagca aaaagaaaag 240  
atagataatt cccaaccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300  
gtcaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360  
acagaattgt cactaaatga acaaaaagaa ggataggaaa ccgtgacctt naatgggtctt 420  
ctcccttta t 431

<210> 31604  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31604

ttcttcaagc tgcttaggtt gtcaccctat atatgtacac tgacatgctt ttctatggta 60  
ccacaaacca actagacttg tcatctctca acatcacctt ttttttttct cttcagccaa 120  
taagaatttc ccagtttgac cactcaattt ccagtaacag tcaactatga cttgattaat 180  
gagaggtaat aaaagtaatt ttttttatag gggaaacaaa ggtacatttt cttgccaaag 240  
tcaagaacta attcctttaa ggatttaacc tcttcaaaca aatatttatt catatacgtt 300  
gggcagaaac agaaaatacc aaacaccata taccttgggc aatggacatg tcttanaatg 360  
ctttcaangg acatgtagta atttaatctc ataacatgtc t 401

<210> 31605

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31605

ttatggagaa acagtacaca ttgatagtt nctggctctg gctntagcca cttgggtccca 60  
attcttcagt tctccaagag acttggtcag ctccatccaa actntcatgt cacatgccta 120  
attccacac tcgtgtctcc cccaagtgcc tcaatatcca tcttcaaac tcttccacca 180  
aacatcaaca ctatttttct tcaaccggtg aaacctgagg acctaccaca aggggctacc 240  
atagaaactc aaattcagct catagtggct ctctctatgc cctccataca tcaggccctg 300  
aagaccttaa cttcaaggac tcgctntgtg gccttgggtg ctgattcttc tgcttttgac 360  
gcattagatn ttgctaata gttcaacatg ttgtcctata tntacctccc catatcagc 419

<210> 31606

<211> 331

<212> DNA

<213> Glycine max

<400> 31606

tgtctagagg aaaagatcct catggcagat aacaacaaca gtcagttcat ttgtgaggga 60  
gcatccctca cgaggtcacc aggettcaca agagaggact atccttattg gaaagacaaa 120  
attgagatgt acatcaagtt caaccctac aaactctggc taatcatcac aaatggagat 180  
ataccatttc ccagaccttg tcataatgga gctaaacaca aaagttcatt atactctaac 240



atgtagtcta tcaaggaatg agtacaacaa tatatgcaga attaagacaa ccaaagagat 300  
 ttggaactca ctgggcatca actatgaatg a 331

<210> 31607  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <400> 31607

actcagcttg tcaaaaggga agcaagttaa gaaatccttt caaagcaaaa acgttgtttc 60  
 tacttcaaaa ccccttgaac tacttcacat tgatttatTTT ggtccctcaa gaactatgCG 120  
 tttaggtgga aattactatg gcttagtaat agtagatgat tactcaaatt tcttggaactt 180  
 tgTTTTtgaa aaccaaaaat gaagctTTTT atgattttca caaacttgcc aaggtgatTC 240  
 aaaatgaaaa aggtctcaac attgTTTTcaa ttagaagtga tcatggaggt gaatttcaaa 300  
 atgactttta tgaaaaaat gaaattcacc ataatttttc tgccccaaga acatctcagg 360  
 agactggtgt tgtggagagg aaaaatagat ccattgaata aggtgcaaga aaccttctaa 420  
 atgaaacaag gttacctaat tacttttggg aagatgtata catactat 468

<210> 31608  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31608

agtggcattt caaatgcaaa gaatggatgt aattgaaaa ctaatgctgg gtatggagct 60  
 acagttggat tgcttcactt tcatttgaaa gtttcattgt aaggcattcg ctctccacaa 120  
 catcataaca gaataaaaat agaaataaga acgagttata aaaaaaacta gcttgcaatt 180  
 gaaactTTTT tcttgatgatt ttcatgttaa gaaagaaaga tgaaccactt angaagcaaa 240  
 agatcaaggc attatcttta ttgaagatac catgaatatt cttgactaaa tataaaacca 300  
 ccataaacat tntccagcaa aaatatctca tattatcata taccacaaaa nataaataaa 360  
 taaataaaaag aaaaatcaca gcaacaacaa ttc 393

<210> 31609

<211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31609

tatcctgaca ttgtttcaaa gcctccaaca gtccaacttg ctcaactcac tcaaattact 60  
 agacaattta aaataaatac agtgactata tgcattgttta atattaaagt atattttctt 120  
 tatattatta gtttacatgt agataagatt taataaatag tcattaataa tcacaatctt 180  
 caaatcagga ttaccactaa actaattaat tgttacaaat caaatcagga tcattaattt 240  
 tcgtgacctt gtttgaacct attgtaacag agaatggcaa gtatatgagt tgtctcattc 300  
 ctttcacgcg ttttgttttt gtcttgacct ggcatnttct cgggctgttc agtgaccacc 360  
 atcacttgga tgtctgttta ttcgtttggc actgcgctnn tgggttagtt agccacactt 420  
 ctagttgtgg cctgcactgg aagatacann atagtagaca agttaaag 468

<210> 31610  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31610

agcttgtatg tgatcaagtt taacttacca acaataacaa tttcctccct ttgttatatt 60  
 ctctcaccta gcttcagcaa ttcagctttt cctgtggctc ttccctccct ttttcatatc 120  
 tttttctctg tctaaggaag tgtgcagcaa aaaaaagaaa actttgttac tcagtatgtt 180  
 aatatgacga cgaanatgga gaactgtcca ccttaccgca ctcccatcct tttctttntg 240  
 tattggttct ggtaaacgtc aagtgagaag cccactaaa catatactat atattaatta 300  
 actatatat 309

<210> 31611  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31611

gaatgctttc tgtcttgtgc caatggaata aattgacttg tcgccaagtt ttggactggt 60

tcctgaacca taatgatact ggtcaatctt tagttcaaata ggacaagcta aatgtgaaat 120  
 ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180  
 tcatacctgt agtgtcaagc acagaagaat gacttttctt taaattcccc agactttctt 240  
 cttcaaaacg ttcacgaccc tcagagagta tgccaagata agcatacaca ttgggtctgaa 300  
 tgggtcaactn tatattntca cgttcatctt ctgannaggg ggtgcttttg taaagaatct 360  
 tggcctgaca taagcattta caattctata aatacattga tttcttggct ttcttcaaca 420  
 acaacatgca tg 432

<210> 31612  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31612

agcttgtttc anagaggtcc aggaaggaca aggcggccga aggaactagt tccgccccgg 60  
 agtacgacag tcaccgcttt aggagcggtg tacatcagca gcgcttcgaa gccatcaagg 120  
 gatggtcggt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc 180  
 aggaggaaat agggcgccgg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240  
 cagaaatagt ccttgagttt tacgccaatg cttggccaac agaggaaggc gtgcgtgaca 300  
 tgaggtcctg ngttangggg cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360  
 tgggatatcc gat 373

<210> 31613  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 31613

tgaatcggac atccgtgtga gaagttatga ccatttgaat ttctcaagag cttccgctgt 60  
 tcatttttga tcctctcgac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120  
 gatcatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180  
 accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240

ttgttcaatt tcgaatatca ctgtatgtga tggcctaaa ttggacattc gagttaaatg 300  
 ttatgaccat ttgaatatct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360  
 gatttgcctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 31614  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 31614

tgaaacagat atcaatatca tcgctaatat cctccagaag tgatattggt agattcacct 60  
 acattgtatt catgaatgaa taaaaatagc ctatcaagaa attaattgaa tcaataatgc 120  
 tagagatcct ttgttaagac attctactta attatctttc tcaaaagaac ctcaattgcg 180  
 atatatcctt aattcctcac catcatagcc atggaccctt ctgggtttata acggcacata 240  
 atgtatggaa tatecttcaa ctctgtacaa catatatctg ccacatgcct cacattatca 300  
 atgggtctct tgatgacaac ctcttcagca tgctcaatga tctgaggtae agctggctgc 360  
 caatgccaat cgagataagc catca 385

<210> 31615  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 31615

aattattgta taaatcttta atcttacaaa ttctttgttt tgtatttggc tactccacat 60  
 gaactaatgg tttgcttatt aaaacacatt aacaccacat taatgatctg aggctcgaga 120  
 catggatatg atgaaaatct aatcgcaacc aataatagat acttttttta agaaaaaat 180  
 atggtgcaaa agctcttaag aagattccta tattattatt gcttataata aatcctatca 240  
 tccattaaca gctattaact tttttgataa atcatatgcg cacatttgaa attttaatta 300  
 atgtataaga atatctt 317

<210> 31616  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31616

tagcataact aattccctga atgacaaaag tcaatagttg aatatgataa ccaagttaat 60  
 actgtgggtg aacatttggt atgcgagaac aagttcgagc agattgtctc caatgaagaa 120  
 tgtaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttgacaaaac 180  
 ctgcggggatg gccaaagctag caatagtgat gccggacaca aggtcagatt tgaagagttt 240  
 gagattatac ttangacccc attggagaat agggaacaca tattgagctc caaggatcag 300  
 ttntctctta agaggttgtc ccttgaattg gcgcagagga tcatcangga agaaagtttc 360  
 cttgagccta cccttgagtt tctg 384

<210> 31617  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31617

tattttttgga gtgattaaag aactctatcc cttatatata aacacaaaca gctcgcgtta 60  
 ttcaactagc accatcacca ccttatccga caacaaggca ttcaacacca atattttaatc 120  
 atcacaatac tacccttacc atangcactg gataagatta agataccaaa gcaagaatga 180  
 tgcatacat cccttggtgt ngcttttataa ccaagaccaa cctgtggcac atgtattgat 240  
 gttacagcat ttcacaatca aaagttttac cctcanagac acacatatat tttat 295

<210> 31618  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31618

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 cacagagatt acgcttttagt ttctctcact agaatccttc aacttgatt caagatgctc 120  
 ttcaaacatg tcttacagct ctatggaaga ccattgaaat gggctctacc caactgaaaa 180  
 acttctggaa caagtagaca aacatgacaa ctatcatgaa atgactgctc gcataacatt 240  
 ctaagacaga cattctgagg aacatnttgt ataatatctt tgaagcatct gtacaatagt 300

cattctgatg tttgctgaga aagaatttat acttgtagta gattcttttg atgaatttca 360  
 actaatatgc ctttctaaag taatgcagct tcatcaatca taacacatcg tcacagcac 419

<210> 31619  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<400> 31619

gtcgctgct gcatgcattc tttaaattga atatgcaacg ctccgcataa tttcgaactg 60  
 ctgtcatcca ttacaatgat ttggtaatct attaccactg cttttgaatg ctgaaatttg 120  
 aattcaaagg tgaatagtca caacctttca cataacagct ttgtgtaatc gattacactt 180  
 atttgtgaat ccattaccaa tgattgcttc tg 212

<210> 31620  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31620

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 aagactcact aagggtggat cttggggttg acgagcctct ggagaagtga gactcaacta 120  
 ggacagacct tgggtttgac gagccttttg agaagtgaga ttcaccaagg atagactttg 180  
 ggtttcaaaa acctataagt ctaccaagg acaaaccttg tgtttgatga gcctttggaa 240  
 acacaagact caccaaggac ggaccttggt tttgatgagc ctttggagaa gcgagactca 300  
 ccaagggcaa accttgtgtt taacgagcct ttggagaggc aagactcact aagagcaggc 360  
 attgnngtgat gagtcttaga ctanggaatg ctcgac 396

<210> 31621  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31621

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aagcactggg aatcaattac caaaacattg gaatcgatta cagctttttg aaattaattg 120  
gaacattggg aattcaattt gaaaagtgga gccttagatt acaattgtgt gaaattatgt 180  
atctaaactt ttatttcttt ntattntttg aggtcaacaa aagtggagct cttgctccta 240  
cgtacccttc atcgaagagg aaatcagacc tacgtaattc tt 282

<210> 31622  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31622

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agctgcagca ccagctccgc ttccctaact gtactggagg cggttgtggg ggctttatcc 120  
tctatggttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180  
gccgatagat cggccttcat ctattcctac acgccctctt cattatccat ttttctggat 240  
cgagtgttat aggggtgcct tgggtgttttc ttagttatga tcaaattcct aaagaaataa 300  
acaatgggtga gtatgccacc aaaacatgag tatgcaaag gatgatcgga gcgcttggat 360  
ccacccaag gttttttaga taacatgggtg agtccataac ttctcattnt atataaagaa 420  
canagctttc atcta 435

<210> 31623  
<211> 354  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31623

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acaaaataca tganaataca aaaaanaaaa agtccttaca acaaagacaa ccanaatgc 120  
cctcaaatac aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag 180  
aaggaaaaac ctattcta atttacaaag ataagcgggc tcatacttag cccatgggct 240  
cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300  
caacttggag ttttctaccc aatgcccttg cgggtganga ttgcatcaat atgt 354

<210> 31624  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 31624

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 aatttgatca tctgtctctg atgaatgcga aaaatgggga aaatgaagag gatgagaata 120  
 agggagaaac ccttgctatg actgccattc ctacacgggc aaatttccca tcagcctaac 180  
 aatgtcatta ctacgccaat aacagtcctt ctcacccaat catccacaaa agtcatcccc 240  
 aaatcagcca caaggcctgc ctgcttaccg cagcccaat gcccaaacac cacctttagc 300  
 gc 302

<210> 31625  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31625

ntctcatgag ctcccttgag tgctccttga ggaatacana aatggaagca catgggaaga 60  
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 cttttgcaca aagaggacca aaactccaac tcttaagata agggttctct tggagaagga 180  
 gaatagagta gagaatgata ttgtgatgtg agttgtagat taataaaggt tttatgagga 240  
 gtttatgatt atctcattc tttctgtatg cactctacac ttcattaaac ttaatcacca 300  
 tttttgtgac ccaagatcca tccacttatg tcgcaacact ctataactca tcaaaacaca 360  
 catataacat gacatatata taaacataac agatcattat ctcataatta attaagtaat 420  
 aattatcgac ac 432

<210> 31626  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31626



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aaccgcaacc agaagatgga gtgtctagag aaaatgcttc tgaggtgagt atcttttatg 120  
tttttggttag ttgatttgac ttgtttgttt aaggaaatag gtgatgcttg gataaggggt 180  
atgtggacta naaattccaa atggaagtgg ttgtatagag aaatcacgtt gtttatggaa 240  
ttgtgtanca tcaatgtgaa ggctaaatca ctgaatgggg agtgaactgg cttcacgact 300  
gctactgctg tcttagacag gcttcttana ttcttgctta taaggtaatg gcttggtata 360  
atcagtcctt tgtatctacc cattatccaa gtactccctt gttattggt 409

<210> 31627  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31627

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gattnttttt ttaaaaaaaa aattgtaatt ttgatctctt attctaaaat aaagacattt 120  
agtccccata tttcttaaaa tccataattt taatccccta ttttaaaatg tagacattta 180  
gtctcttgct tttaaaatct ataatttttg tcattctctc aaacttaaag caatgatggt 240  
aagaaattaa taatgaatat gacataaatt aaacaaatta tcttttgtca ctaaatttgg 300  
accacatcaa attaatttct taccatcaat gtnnttttaa attgatgaaa gaatcataat 360  
tgtgacattt acaaagctaa aggactaaat gtctntattn tataatanaa gaactaanat 420  
tatgagattt aaaaaataac aaactaaaat 450

<210> 31628  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 31628

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gcacaacaag ttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120  
ctccaactga gctcacatac tcccacgtag cccatatcct cgtttctctc aacaccgggt 180

ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacagcacaa 240  
 gctatcacag ccaagcaaaa cagggcaaag gcagaaaact ctgctcaaac accaaccaaa 300  
 atcacagctt ttctcactta aagaccccaa taacaattcc ttcgatctaa ttcgttaacc 360  
 gttggatcga ctccaaaaat gtactggaag tctatagtgc ataagcctac attttgaccg 420  
 ctgggatctg 430

<210> 31629  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31629

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 tcgagtgaca cctgtgtggg gagcaactca acccttgtgc ggtcggttga gaagttagaa 120  
 gaggtgtaga atgcaatctg gctcgatcgt gggatcatgg aggtagaaat tgtggcggac 180  
 gtgtgggact ttgacattgt gaagcacacg atgcacgatg tgggccccat agacgtcctg 240  
 cttttgaatt acaacatggt catgttgctt cttcctaaca taaatctaata ggcaacattg 300  
 aatctcctca agttcgcgtg aggttattag attatgggtt gngattctta gtttttgtga 360  
 gtaatggctt acagaacgtg aaagaatgga ttggagattt ggtcttttgg tttataat 418

<210> 31630  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31630

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 ttcttacgac ttgatattt ctactttnta tttttaatct tatattattt catataaata 120  
 ttttgtagtc ctctgatcta aagaatattc aagaaaggag ttcgaaaaga aaaagtgatt 180  
 ttgatgatga agttcctttc agttcttctc tcanatcaac cccataattg aaaccaaaaga 240  
 aaaaaaagta agtttctctt anagtttctt ttntatttaa ttagaaatta cttcgactaa 300  
 atttctacgc atatagtagt taaatcaaat attcattttc caaaaatgta aacatactat 360

tttcaggaaa ctntaagaaa gatntattct acacattcta agtctaaaga catgatcgag 420  
acacaccttt 430

<210> 31631  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31631

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actcaatddd gattcatgaa tgactcttgg tagttcatgg aaactgtgta aatcaagccc 120  
acaattagta tggattcctt ttgaatddd tactaaaaat ggttaaagta gagttttgtc 180  
aaaaatggat attcttgctt ttactaaaa ctagtaaatt ctatcctaaa caccttgatt 240  
attgtgctaa tctccctagg attacttgta actagagtga aactcacata aagattactc 300  
ttacatagag ctaaattaca ttgtcactca ngatacaaca caatdddgnt acataaagaa 360  
tcttcgttca gatagtttcc atatctctgt caagttagac taaacaaatt atttacac 418

<210> 31632  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31632

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gtgtaatagt gattcaagaa tcagggttcaa agatcatgaa ttgaataata agaaagggtc 120  
ctgggtagta ataataagga gtgatgttaa aaatccatct atggagaaaa atagaaccaa 180  
aagtattaaa gaagaataaa gagttcaatg gaatdddctt tggtgaaaaa acaaatgga 240  
aaaaaaaaatga agtaaaaaaa gaaaaaaaaa agttgaaaca atgacaaaaa tattcctaag 300  
atgattatta tatttgtgat ctcatgctat gaatcatggt tgggcaaaag aaataattgg 360  
agaaaaaaat taanaaatag aagtgtattg aatgagaat gattgattac atcaacaaa 419

<210> 31633  
<211> 408  
<212> DNA

<213> Glycine max

<400> 31633

agcctgattt atatttattt attaaactat aagtgttcgg aacaatcaat ggatgaaata 60  
ctcaaacagt gcagatgact gacaaataat gaaatcatga attatgtaca aaggatacaa 120  
aacaagatga gataaatatc ttaacgatcg aaaaaaatat tcacaagtta gaaatcaaaa 180  
gctagaattt caaaaaacat gttaaaagtt acttaaaaaa cctacttaaa aaactttatt 240  
atcggatact caaatgacat tcttaactat taaaaaacta aacactaact acaatatctt 300  
accaaaaata atcttagtat ttttaatctt gatcatccat gtgtataatc ataagaacta 360  
tattcctctc gcttctttgt tttaatcaac cgtgaatctg acttatat 408

<210> 31634

<211> 419

<212> DNA

<213> Glycine max

<400> 31634

agcttctttt tgttcttttt agtagcctgc aagttcctca tgtgcaatat aggttcacat 60  
ccaacatctg ccactgatct gccattcggg gtttgcaact taaatcgctc tgccttgtat 120  
gcagaaagga tattatcttc atcgggtagg tgattgctaa ctttcatgag tgagccaaga 180  
gaattcatct gaaaggttta agatacaatc agatgacagc ttccaagaat aaaattgaaa 240  
actagtttta ctccagataa aaacaatatg gcagtcacta ttgacccacc tagctgagaa 300  
aatgataga actacagtct tttatgtact taatgaccta ccaattataa ttattaatcc 360  
aactacaatt caagatctta agttgattat aaactgagcg aaccatatcc aaaccaaatt 419

<210> 31635

<211> 416

<212> DNA

<213> Glycine max

<400> 31635

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cagaaagata attttatgta tatattttttt aaaattttta atatatttat tactttacta 120  
ccagtatttt tataataaag atgtattctt ttttaattga caaattattt agtttattaa 180

ttttatttat tcaaattaat ttattcaata ttattgaatt ccagtcaatt acttgctaaa 240  
 actgaagtct gaagggtttac aaattacaaa atgcatttta aagagaaaaa taaaagcata 300  
 aaatagatat atgaagtaga aaaatcaaat aaatcatggt tacagagagt tccaatttaa 360  
 tacaacgggc tactcaatat gtcttcctct ttggtactct tagtcttcga gacaat 416

<210> 31636  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31636

agcttctctt ttcttgttta attattatat ttgttttta atccttgtat ttggctgtgt 60  
 ttttatgaca ttgagcact tattatttct ttttaatat tgttttagtat gactgaatat 120  
 gatgattata ttactatct cttgggtggt tatgggtatg aattttaaac ttagttattt 180  
 tgataatata tgatcagtgg tatgtacttt tatttggtta ttatgagtga cttttctgga 240  
 ttatatgaca ttctatgaag tatatcttct taagattgat gaatgggtta gttatcttgt 300  
 ttgattgttt tctattctct tgtatgatta gtaatttatg tatgttttat atttgttatg 360  
 cattttggct ttntgttgat gccaaagggg gagagaaata nggattaaat caagaactcg 420

<210> 31637  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31637

agcttagatt ctttctaacg acaataactt ttactcgga tgtctgattg agtcccgta 60  
 tatatcgaga cgctcgaaat tgaatgttga atctcttaac caatccaaac gacaataact 120  
 ttttactcgg atgtctgatt ggtcccgta atataacgag acgctcaaaa ttgaatgttg 180  
 aagcttagag ccaattcaaa cgacaataac ttattactcg gatgtctgat tgagtcccg 240  
 catatatcga gacgctcgaa attgaatgtt gaagctctta gccattcaa acgacaataa 300  
 ctttatactc gaatgtctga ttgagtcttg taatataacg agacgctcga aattgaatgt 360  
 tgaagctctg agccaattca aacgacaata actttntact cggatgtctg attgagtccc 420

gtcatat

427

<210> 31638  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31638

agcttagttc tagaagggat ggaccttttc aggttttgga gaggatcaat aacaatgcct 60  
ataggttgga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120  
ctccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaadc 180  
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaatc actagaacca 240  
tgagcaagag gctccaagaa gattgngcta gagctgctga agaaggccct anggttctca 300  
tgaaccttan ggtagatttc tgagcccatg ggccaagggtt ggggtccaatt atctttgtac 360  
atattagact angatgtcat tataatntggt ccttgatatat anggtcccat att 413

<210> 31639  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31639

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tctccttggt attatgtact tggtcatctt ctacacttgt accaactacta acattgtaat 120  
cggtatactt tttttttggg cattttctaca tgtgactaaa tggtgccta cattgaaacc 180  
atgtcccttc ttctgtctt ttgttatact attgataagg aagcttttgt gctcccctgt 240  
tactcttggg aatgtggtag tggtggactt ttttctgac tgatctcatg ctgatgtcg 300  
ttccacaccc ctgtctgaat tggagacttt tagaattcta agagttcttt actcccaaact 360  
aattgtcaag atcttaagtt cattggatac caatttctac acttaactgg ttcctttga 419

<210> 31640  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 31640

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 gaccttggtt cctctcatga cagcttggtg accctagagg ggagtcgaag agtgaaaatg 120  
 cagagcgcaa gagagtacag agagctagac atcaaataat aaaaaaaaaag cataaaacct 180  
 tctaagacga tttttttaca aaaccgtctt aaaatgacag tcttttaaga tggttttcgt 240  
 aaaatcgtct tcggtgaaaa ctttcgtatt tataaaattg tcaactgccta tatacgggaa 300  
 ccgtcttaat ttcggtgttg tagaaaaat ttttttctag tagtgactnt ctctcttaat 360  
 aaatttaaaa attagaaaat gttctagaat tgaagtgtaa ctctt 405

<210> 31641  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31641

agcttgcatt tgttattgcg aaagcccccac tccatcatta ggattagtag ctgacatctc 60  
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 caagtgtatc acacaattat ggctttttctc taatgaaaca ctcttgctt ttaccactct 180  
 aattccccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240  
 caatatgtgt aaggtaaggc tagacaagga aaaggttaac caagaaaaag gctaacaatg 300  
 tttttaggca caaatgaagg anataaaatt cagaatttag gaattcaagt aacaatcctt 360  
 catgcaacca atatattacc ttanagaggt ttttttttaa gttcttcaag catgaaccat 420  
 tc 422

<210> 31642  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31642

agcttgattt tgttcatcgg aagctcttga gaaattcaaa tggtcataac ttttcacacg 60  
 gatgtccgat tctggcaaat cacatatcag gacactcgaa attgaacaat ggaagctctt 120

gagaatttca aatggtcata acttttcaca cggatgtagg attaaggcgc atcacatata 180  
gagacgctcg aaaatgaaca acggaagctc tggggaacat aagatgggtca taactttctca 240  
cactgaggtc ctattctggc ttataatata ttgatatgct cgagattaaa catctgaagc 300  
tctcgagaaa ttcanatggc cataactatt cacacggatg tccgattcgg gcgcataata 360  
tg 362

<210> 31643  
<211> 261  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31643

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acgaagctag agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg 120  
agaagctaga gcttagctac acaccncta taatagctaa gcttaccccc atgacaaana 180  
acatgagaat acaaaanana gtccttacta ganagactac tcanaatacc ccgaaataca 240  
aggctaanac cctatactac t 261

<210> 31644  
<211> 311  
<212> DNA  
<213> Glycine max  
<400> 31644

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cagaggcttt gtcaagggaag agagtgaag gatcgccgtt gttgagtatc ttggcacgac 120  
catctcccca agttacgtca aaatcctggt agaagttgcc agcagaggct gcgatggaag 180  
aggccaatac aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240  
ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300  
agtaatgaaa t 311

<210> 31645  
<211> 419  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 31645

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 taaaaggaaa ggattggtac aaaggggggt gctctaata ga attgctatatt tcaagaggaa 120  
 gttaagcaga taatgctaata attagcatgg cagatttaca agtaattgga gaggttgggt 180  
 tggagatata gctttactac agtaaataga ctttttccat ctaatgaagt tgaaattttt 240  
 gacaggttgg gttggagata tagatttaca agtaattgga gaggttgggt tggagatata 300  
 gatttacaag tggatctggt tactagacgc agataaatgc tttnggggtg ctgcaacata 360  
 tatccatttc atatgccttt ctacacaact gcaagaatat ggtctatcag tcaactgaat 419

<210> 31646

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31646

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 caccatacgt atttcagtaa ctagctatta tatagtctct tactctcatt acttgataat 120  
 tatatataga tccttataag tacttgtaaa tgaagaaaat cacaaggata aatgaaataa 180  
 acttctcccg tacgtaatag cttatggggg aaacttaatt tcatttttcc ttattttctt 240  
 cttttataag tgcttatgga aaactttatc ctaacagaac cttattctct gtcttgacaca 300  
 gatcntattg caattccaga gtactaatag ggactaggta gagtaatctt ttaacgaaat 360  
 tccatctatg cagggttcgt acaggaggga atat 394

<210> 31647

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31647

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accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180  
aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240  
gaactaagac aagagtttcc ttgtagtggt tataactgaa gtcagagcca tatgaataac 300  
ttanagggtt ggcaaagaag tcattctcac cagccattgt cttcatgtca tccaaacaat 360  
ntggaatgga tcctgacagg ctgttattgc caagatccag cactat 406

<210> 31648  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 31648  
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agtggatgac gcctcctctc acctcttctc ctttatcttc cgctgcatct ccatgggtga 120  
aatcatcat tgaaggacct cattgaagct caaagattca gcctccatag aagcttctca 180  
agaaagcttc catcattaat tagcatgtaa tccactcaag agactcaaca aaacaacaac 240  
ccaagcatca aattacatgc ttataaaata aaactagatt ttatatcttt atgcgtgatc 300  
atccaaatta gtccatcatc tttattcctc aagtagctat atgtagttga ccaacttggt 360  
ctttaatcct tctagatgtg aacatgcttc agtgagagtt gtcattcatt 409

<210> 31649  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31649

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atgtgagctg ctaatatatt actatgaaaa agaataataca tcttatcggc cttgtttaca 120  
ttttttttgt gtgccataaa aataattttt tttaaaaaaa gctttacttt ttcaataaat 180  
aaaagaatgt tttattctct agaataattcc tcctcctata tgctcattcc tcaacttaata 240  
attcctccct catccacacg tcataaattt acatggagtg gtaaatagta atcattttaa 300  
accaccattt ntaattcttt caccctctga aaatgctgca ctcattgtat tctgtttcac 360

cttcattcac caagatacca atgcactgca gtacaccaat gcagcacaca attaatt 416

<210> 31650  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31650

agcttagatt cctccatcat caaggaatta gggcgggtga tggaacctct ccaaattgcaa 60  
 gctttccgca agacttacgg aaagatctta gagttgacct tagcagaggt atccatagaa 120  
 gccattgcat cactcaccca atactacgac cagcctttga gatgcttcac attcggagac 180  
 ttccaattag taccaaccat tgaagaattt gaggagattc taggatgtcc tctcggggga 240  
 agaaaacat atctttcatc cgggtgtctc ccctctntga gcagaattgc aactgtggtc 300  
 aaggattcag caagagggtt ggaccacata aaacagactc ggaacggcat agcgggccta 360  
 ccacggaggt acct 374

<210> 31651  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31651

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 ctagacattc tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaacct 120  
 aaaatataaa agaagccata atagatgata actggatcat tgccatgcaa gaagaactga 180  
 accaatttga aagaaacaat gtatggaaat tagtagaaaa acctgaaaat tctctatca 240  
 taggaacaaa atgggttttt agaaataagt tagatgaaca tgggtataatt attagaaata 300  
 aagccaggtt agtagcaaaa ggggtataata tagaagaagg aatagactat gaagaaacat 360  
 atgctc 366

<210> 31652  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31652

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caactcacia gtttaggcca tcacaattta caagggaag tagtcaactgt tgggaggagt 120  
ctccagatca aaaaagtggg accgtaggct ctgcatcaaa ttgatggcac gacaaaacia 180  
tttactaca tcaggaaaca agcatgattt caaacaatat gttaataaga taaccactga 240  
cctgttttca ttgcagggtg ctgttgatga ttcangtccg tgctttcatt gaccatcggt 300  
ttgcttgcac ctcttctttt cttcatcttt gaggcgctca gagaaccttc tactgtagag 360  
tatggngtaa gaaaacaata tanatcatta gtaatgctta agaggagtaa tcagaat 417

<210> 31653  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31653

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atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgatactgac 120  
tttttactcg gatgtctgat tgagtcccggt aagatatcga gacgctcgaa attgaatctt 180  
gaacttctga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcccg 240  
taacatattg agacgctcga aattgaatgt tgaacctctg agctaattaa aacgacatta 300  
actntttact cagatgtctg attgagtccc gtaacttacc gagacgctcg aaattgaacg 360  
ttgaagctcc gagccaatac aaacgaccaa aactgtntac tcggatgtct gattg 415

<210> 31654  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31654

agctttgttt gtgtgtgtcc aatgggtgca ataccacaag aggctgacca aagcactaat 60  
gcccagcata ttgtagatgt tcggaaggcg ggaatcaaac cttcagttga tgataaacat 120  
gttgtgagac gagaagcggt gaagcggtgt acatgggaag taatggacag tgacagaggg 180



ga

422

<210> 31657  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31657

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 atagacttga agagaaccca tcaattgggtc tacgggtcatt gagtctaaat ccttagactc 120  
 ttcaatagca caaaccatat aatcaaattt agcgattaag gagcgaagga tcttttccac 180  
 cacatgaaca tcttccatat tttctccata atgcttcatt tggttcacia tagccaacac 240  
 cttgttgcca aaatctgaga tagattcgga ttccttcata tgcaatgatt caaactctct 300  
 acatagaatg taacttcata ccttggttttc ccaacatgac aatattgaaa gcataaattt 360  
 tgtgaaagcc taatcctcca aacccttgtt tcattgacat tntactccat ctcat 415

<210> 31658  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31658

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 aggaggaaat agggcgccgg cgggtgggcac cactggttac tcctatggcc aagtttgatc 240  
 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
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<210> 31659  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31659

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caagtccata acatcaatth aaacttgtec aaactggatt tacacctaaa atttcaccga 180  
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aaactaggat taactcattt taaccttcat ttactacaga atccagattt aaccttctaa 360  
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<210> 31660  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31660

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cctgtgcgct ataatgccta agtgccctata caagcttaaa caaaggatgt tttatggctt 180  
tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240  
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aattgtaaaa ttcanaatat tatactaatc ctctcatttt atttgtcact cttgaaatat 360  
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<210> 31661  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31661

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gcctgaatcg gacctctgag ctaaaagtta tgaccatttg aatttctcga gagccttccg 180

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 tatgaccatt tgaatntctt gagagcttcc gttggtcaat ttcgagcgtc tcgatatatt 300  
 atgtgcctga atcgaacctc cgagtgaacta tgtatgacca ttngaattgc tcaacagctt 360  
 ccattgggtca atctggagcg tctcgatata ttatgcgcct gaatcggacc tccgagtaaa 420  
 acgtatgac 429

<210> 31662  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 31662

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 ctgacctccg agagacaagt tatgactcat gcgaattgct catgagcttc cattgttcaa 180  
 tctcgagcgt gtcgatatat tatgcgctg aatcggacct ccgacttaag agatatgacc 240  
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 gaatcggaca 310

<210> 31663  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31663

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 ttctattaca ttctctcctt gttccaaaaa cagtcaaat tactgacaca tgttaagagg 180  
 cagacaaaac ttggtttata atgcgtgtca ctcaatgctg ggatctttct tgattacaat 240  
 acttcacgtt ctgaataata tcttatatca tttctgaata tatgcgagat tntattcttt 300  
 gaaatcaca 309

<210> 31664



<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31664

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gcaaaatatg aatatatata gcaggaaaat gccttcata atatgaatat atatagcatg 180  
aagtgcctta caaaatgctt ggatgggtag cgtaaaagtg tttttcaaaa tatgtgtatt 240  
tgtgagtagc tagcaaaaaga agccttccaa aaaatgtgta tatatatagg atgtagcatg 300  
aaaagggttg tcaanaata tgcacatgga tatgtgtcgt acaatgcttc tcacaaaatt 360  
attatgtgtg caaatgcgta tgtgtcat 388

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<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31665

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cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatggtct 180  
tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240  
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aattgtaaaa ttcanaatat tatactaate ctctcatttt atttgtcact tttgaaatat 360  
ttctttatca taaactatnt gccatntaga atattatnaa aatattaatc actttctctt 420  
aataa 425

<210> 31666  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31666

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 ggacgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180  
 agaacacgac caaaacaagt tttgaagggc tttatagggc agcaatagtg agctcaggct 240  
 ccgaagaggt gaaaggaatc atcacgggtc anaggcatga tcttgaagaa cgagctanag 300  
 gcttgcctta ngtcgaanag aaatttgtcc caacagttaa gcaagactga aggggaatatg 360  
 tgggccatca tcgatgagtg caaagagaag ctaaatacta 399

<210> 31667  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31667

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 agctgaagta ggtcaaagat ttctagaagt ttctgttttg gccgatgtac ttccggcatg 180  
 ttttagctata ttctaagttt tcaaacttta ttttcatttc ctttgatggt gatgtattgt 240  
 ctttttcaag ctggaagtgt tttgcgggtg atattagaga tacaaattag tttagttggt 300  
 agttattagt ttaaattggt acaatctagt ttagcttatt acaatttaat ttaattagtt 360  
 acaaattagt ttagttaatt acaagtttag ctatataaga ctcaatgtat tcatgtaaaa 420  
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<210> 31668  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31668

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 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttatctc aaccccggtg 180

cccatcaat ccttccaagc ttccccaaca tccaggtaat tcatcatcca aatcatcaca 240  
aactaaaaaa tcaagcaaaa tatggcaaat gcagaaaact ctgccccata ctcaaaccaa 300  
aatcacagct gtttctcact tanagaccgc agtaacatit ctttctgtcc aattgggttaa 360  
cacgatggat tgactcgaac aatttactgg aagtctctag tacataagtc ta 412

<210> 31669  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 31669

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taggagcact catgggtcacc acaccgacac tcagcaagga tgtagcgacg gtgaacgaag 180  
gagacacaat aggactagcc aaagcagctg gcgcatcaac ttcagtagta ggagtggcct 240  
cctgaacaag cacaacaaga ggaggtggag gagtaggagt aacaacaaca acaacagcga 300  
aagcaaaagc ctcaacggat cttgcaaact tgaaggtga cctgaatcaa gcgtcaaccc 360  
tacagc 366

<210> 31670  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31670

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gagcacttgg tgagcacatg tttggacata aattgcaaga ggatgggggac aatgtggcat 180  
gccccattgc ttcagaatac agcataggcc taaggccttc tcattcaaait cctcaattca 240  
agaaaacaag cataaaaaaa aaccaaaact gcccacaaaa tacaagcaca ttctctcaat 300  
ttggagcacc aaaagatgaa gaanatatac caatgggaag ctganaacat caaggattga 360  
atacttactt gttggagtgg acaataacac caaaaatg 398

<210> 31671  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31671  
  
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 aaccgcgaat ggggttaggc aaagacaacg gcggcataac tagcctgata aatgccaaag 120  
 gaaattgtgg gaagtatggg ttaggctata agcccactca ggcagatata aagagaagca 180  
 tcgcgggaag gaagagcggg agtcaaagct cgcgggtgag acaagaaggg gaaggaagcc 240  
 caccctgccca cataagtagg agctttataa gcgcaggctt gggggacgaa tgtcaagtgg 300  
 tcgcgatata cgaagatgat gttccgagta catt 334

<210> 31672  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31672  
  
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 aaaataaata gatatttgta cttgaaaatg atataatata atctttttaa aaattttatt 180  
 tattgaatat attttttctc ttttatatta ttattattag ttaagggtta atcatttgga 240  
 taatatgtga gttgaattct tgacataaat cattcttaat cagattntat ttattttttt 300  
 ctaatgaatc ggagaattaa cacaaaaata aataaataat aataataata ataataataa 360  
 taataataat aataataata atattattat tattattatt attattatta ttattattat 420  
 tat 423

<210> 31673  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31673

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tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180  
aactaaatgt gtcactcagt caatagtaaa gaggatacaa agtataatgt aattgatgac 240  
attgtcatatc tggttagtcct tcaaagtgtat tattattgtt gatcaagcaa acttggttcac 300  
caagtgggttc cacaacacct cgactatcat catggagaat acgccttgag tagtaaacad 360  
tgtgttaata ctttgtttgc aataaaataa tattgaatta gcattaataa aagagagctn 420  
gaatacc 427

<210> 31674  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31674

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gctaacccttg gtcaaccgcg ataccacaaata gtattaaaaa gtgaaaaata taagaagagt 180  
attacaaact aaatcaaact aatgaaatct ataactagga agacaacatc tatcttgaaa 240  
taagaaaaga aggagtaaga tcccaccaac taaaaccan agtaataagc ccgtgctttg 300  
ctaatttggtt tgcacaagtg tagccttcac aatacacatg ggagacaaca agattcatgc 360  
tatgagcaag atgaacacaa ttctctaat gtgtacttaa ctaccaagga ataacatcat 420  
catgac 427

<210> 31675  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31675

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gaccactaa caactttaga tccaacaccg agaaaaattc caaagagtag tgtaaggtaa 180  
 ttttcactag gagggaaaagt gctaagaacg aaaagagaat tgaggaggat gtgcatgatg 240  
 atgaacgaga aaagaaagaa gagggagaaa aagatcagag caatgaaagt ggtgatgagg 300  
 tctcaaccac taacaccaag accaagagcc agttagctta tgaggctaga agagaaatac 360  
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<210> 31676  
 <211> 417  
 <212> DNA  
 <213> Glycine max

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 attatacata tattgatcta aacatgcaaa tcaattttaa tgacatattt atatcaaaca 180  
 gcggagatta aatatattac gagcgtacct ccagccattg caaattgaac gggaagcggc 240  
 gaacacacga acctgaaaga cagttctggt cttccagacc cttactcatt ctaaatagat 300  
 ggtgtatttt ttttctgaat agaggagtga gtttggtgat acaaaaactga gagcaccaca 360  
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<210> 31677  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 31677  
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 tttgaccttc catgcagcaa cctgtagcaa tcgaacagcc tgaagcttat gctgcaaata 180  
 tttacaatag acctgctcaa cctcagcaac aaaatcaacc acagcacaac aattatgacc 240  
 ttcccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggtagattc 300  
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<400> 31680  
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 aatggccccg aggaagcttg cctcaaagag gtccaggaag gacaaggcag ccgaaggagc 180  
 tagttccgct cgggagtatg atagtcaccg ctttaggagt gctgtacacc agcagcgctt 240  
 cgaggccatc aagggatggg cgtttctccg ggagcgacgc gtccagctca gggacgacga 300  
 gtatactgat ttccaggagg aaatatggcg ccggcggtgg gcatcactgg ttactcccat 360  
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<210> 31681  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31681

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 tataagatga gtatttcaaa ctaaatacaaa tcaatgaaat ctattactat gaatacaaca 180  
 tctatctttg aatacgaaat aaacgagtaa gatcccaccc actaataccc taagtaataa 240  
 gcccgtgctt tgcttatattg gttgcacaag tgtagccttc accattcaca tgggagacaa 300  
 ccagattcat gctctgatca agatgaacac tatttctctt atgt 344

<210> 31682  
 <211> 104  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31682

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<210> 31683  
 <211> 357  
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<400> 31688  
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 agtgattctt tccttccttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240  
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 tgattcttga gcctaaattg aattttcaaaa cgagaccttt cacctcgttt tggaatcacc 360  
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<210> 31689  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31689  
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 ataagttgca aataagataa tgacaatttt gatagagatt tagtttgtaa cataatgttc 240  
 tcaatttatt tatatttgag tagatttggt gattgggggtg acttattgtg tgtgtagaga 300  
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<210> 31690  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 gatccttcca cccaagcata aagaccctgn gagtgtgaact attccttatt caattggaga 180



attcacaagt aatatgacat gagtcccata tctgtcatat cacattcacg agacatggac 420  
t 421

<210> 31693  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31693

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caagt 425

<210> 31694  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31694

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agtacttcat atctataata taataaaaaa aacaataaat aacattaata gtgtgtttca 180  
gctttatata atttcctaac taaaaaagaa gcattaggat atctttgagc tttaaatttg 240  
gtggcattag ttccgatggt taaatggcaa ttgtttaatt taaggggcgt gtctagtgtga 300  
agagtcagtg tgtcaaataa tggatgattt gatgaatgac cagatgtact cgagtgcag 360  
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<210> 31695

<211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31695

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tcaatganaa tggaagactt gaacgacagt ggttggcttg ctctcattgt tctggaatag 420
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<210> 31696  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31696

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taattgtatt ttgttgata ttttttacat aataactact atagattctt agttgttaat 240
tcagaagtga ctaaaattta taatgttact attatgtaat ctagagatat cactttcttt 300
gaaaatcttt ttccttanaa aagaaattgt taaatcttta tatggtttga aacaagcccc 360
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agtgat 426
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<210> 31697  
 <211> 413  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31697

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gaaattgatt attcacagca tactctagct agcatgattt ttaaatgggt atgattcata 180  
atcattcaaa cacaatgtag atagaaccaa caaaagtgtt tcacgatctg tgaattttgt 240  
atacagccaa caacagctgc tagaaatctc tgtctgtcct agtattaggc ctgccagat 300  
tatttgtctg atggctaata tttaccagag ccagcttgat ggctntaaat caccctttt 360  
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<210> 31698

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31698

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aacatcaaga atcaacaatg tcaaaagtgt ttaaacaggg gaatcgggtga gagcaacaac 180  
ttctctagat gacgaatcag aaagattagg aattcctcca attggggaaa caaggggggtc 240  
agctatttct gtagctgggt aatcaggagg agtagctgct tcactctgatg atgcgtcaga 300  
aatgacaatc agaggaggag atggnggaac tgcttcaagc tcaagcgaag aaggtggatt 360  
caccactaga gattgtgggt tagctgggtc tgaattgacc tgcacaagtg t 411

<210> 31699

<211> 414

<212> DNA

<213> Glycine max

<400> 31699

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cataaagtta ataaattcca tgatagaaca agaacaaata aataagcaca agtagaggaa 120

cattatttcta tggacattca tttcattaat acaatgtatt ggactggatc cctaacattg 180  
 tcatatatatt tccacaaatc ggataatatt gtcaaattatt tcttcatgcg agtgcacggt 240  
 aaggtcataa agctctgatg aaatattcaa ttcacttgaa cttgttgaaa caccattaat 300  
 ttcaaagaac caagggttcag ttgctttcat gatcagaact tgctacacac cgtatagtta 360  
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<210> 31700  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31700

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 ctctttttaa catgaatggt tggatatatcc acattttccat cagtgtgatg tgtaagtcta 180  
 accaaaagaa atttcccaac agtctaataa aagtggaaac caccaccaat aattgcaaatt 240  
 agttctctct tatcttttgc tttcttttcc atccccgtaa cacaatatat taatgaaaca 300  
 aaaacaagaa aatccattgc agccattatt aagcacttga aaaagtcaca aacctgaacc 360  
 ataattgacg canaatccan atcagtttct ccttctaata ttgtggaaag ttcacggtag 420  
 actc 424

<210> 31701  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31701

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 aaaacaagaa atgaattgaa agcctcgggt tcgagcactt acccattgaa gaccaaagag 120  
 cggatgaaga acgacgaana atcttcatgg aatcaccac gaaaatgtct tagaagcggt 180  
 atggaggcac ctcggcttgt attttcttca cagaaacacg ttttttcatc caaaacaatt 240  
 canatgcata acataggggt caggaccctt ttactacacc tctntgccct tatttatagc 300



caaaacaggg aggagcttgc cgcccagctc gcccagggcg gcctaggctt tcttaggaag 360  
 tttcctgatg caccctcaaa attactaagt tca 393

<210> 31702  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31702

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 ggtcttcatg ttcgggtgat gccttaataa acttataaat ttttcagcta accattctgt 120  
 agtcacctac cattttctag cagtcctaaa gcatatgtat tcattctatga aagacaacct 180  
 accaatgagt cttctaattc aacttgctaa cccttaactt aaaacgacac cctagcatga 240  
 acttcaccac atatctcttc aagtcatttt gcacaacttt caaatttttc ttattgacca 300  
 ttgcaattgt tttcacaact tctttgatat cttttttggg gttaaaaatc agcccactct 360  
 caatatgaat atccacatca tccgcaggta ttctaaacct agaatatctc tntgtctcat 420  
 tctc 424

<210> 31703  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31703

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 gcaccaatgc tagatcctta ngcatttggt tccatgggtga aagggttaga gaaattgagt 120  
 atgcatagca ctgggggctga gctaactgcc tcttgtaacg cgtgaaaggc tagcatggcc 180  
 tacggtgacc acacaagggt ttccttggtc aagagatgaa tcacaggggt tgctatggta 240  
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacaggggt 300  
 ctaaaggagg tgggtcgcg ccatgatga atggcaagta tcttgtcacg aacgggatga 360  
 acaccgcaa cggataccac atgac 385

<210> 31704

<211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31704

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 tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120  
 tcttcttcat caatggattc ctttgcttct tggaaagatga atggcagcgg aatggagaaa 180  
 ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gctcaccacc 240  
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300  
 aagagcacga nattntgtgc tctanatgag ctttgagatc tgaagtttaa tattcanatg 360  
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<210> 31705  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 31705

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 gatggccttg attttctcag ggtccacttg gaccccatth ctaccaacta caaaacctaa 120  
 gaagactata ttatctacac aaaaggtaca cttctctata tttgcataga ggggtgttttt 180  
 cctaaggact gaaagaactt gctaagatg tctaagtga tcagctaggc ttctactgta 240  
 cactaaaata tcatcaaaat aaacaactac aaatctacct atgacatccc ttaagacatg 300  
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagtca 360  
 ttcatacaaa ccaacttggt tcttgagagc gatttacact cat 403

<210> 31706  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31706

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 tgggtccaaag ctttaaattt tattattatt taaatgcaca tcagacttat ttatggcaaa 180  
 tctttaatcc taaagctggt gaggtttata cccatacaca gtgtaacatg ttcattgtttg 240  
 aaacaatgag gatctgcctt ctatgtaatc ttaagaatgt tttgattgat ctttagaaat 300  
 gtcattctatt gtagattgta gatgctgcct tttcttntt ctatctctct ttttttcgtg 360  
 ttttgtactt ccactgcctt gtacccttgc tacttatntc aatgggtttt gtacgactct 420

<210> 31707  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 31707  
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 gcgattgtat atttttaatc aaattataca actcttcgcg aataaactct ccaggattac 120  
 gtagataaga aggcgatgga agagctaaac ggtactcaat cattgaacca acttcttgga 180  
 gggcttcaga tagcaaagct agcatctcat aatctccatc ttcataaatg actactactc 240  
 tatgccaaacc ataagcatgt actacatctg caacacattt tgcatatgca gtaccatatg 300  
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<210> 31708  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31708

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 gaaactatct actctataaa tacaagcatg tgtaacacat gttgtaactt tcttgaatga 180  
 aagtcttatg agatacaatt cacagttcca ctnttttttc cttttattcc ttcattctgt 240  
 gctcccgcct tgtatctttc ttttcctcca ttaaagtatc ctcttcaagc ttcttatcca 300  
 aagcaattgt tggcggtgaa gtccttctt ccttggctga ttccctatgg atggtgcccc 360  
 cctttccttt ctcttttctt c 381

<210> 31709  
 <211> 570  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31709

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 cagancccc gggggcggtc tgganctgtg ttgatcctct tacanacata gacactctca 120  
 atctctcaac tacgcagcat acacgaaggc gcgaccatat cacctttcca tttctcgcca 180  
 cctgagcaac tcacatctat catgtgcgtg acagcaattg aactgcccac ggatttatta 240  
 tggggcaggg cacacttcgg ccatcgctcc tgatcagggc cgacagacgc gggacgactt 300  
 gactttcatg tgacgtcacc gccaacctat ccatccacat agcggcattt tgatctgccc 360  
 ccccatccc cccctcatgc ttattttagt gatacacttg tgcaaaagca ccactagcct 420  
 tcgcctatcg gccatcgact ggtcaactcc ctcacgaac ttccggagat cactaccacg 480  
 ccttgcgccg cggatgtcag agtgaactca actcactatg aacaccggaa agcaacaagg 540  
 gtgttctgca caaccaaagc ctcaggcccc 570

<210> 31710  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 31710

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 gaagtagatg ggagacgtgt taacctctag aaggttcatt ttggaagcac tgtgcaagc 180  
 tggtagatg cgccatgatg gtgacaaggc agattcctgt ttaatgcac tggaggcatc 240  
 acatgatgtg gagacgtgct caatggacga atagttgcta caggggatga tggataacgc 300  
 ccaaattgaa gtctgcagtg cgaaaaaacg gagatggata tgtgtatgca gtcagatgat 360  
 aaaaacccaa gtaagcccaa gtc 383

<210> 31711

<211> 389  
 <212> DNA  
 <213> Glycine max

<400> 31711

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 caagtctata acatcaattt aaacttgctc aactggattt acacctaata tttcaccgaa 180  
 tcaaaatttg actcctcaac acccaatttt accctagaaa tggctctttg ttcacttttg 240  
 ccatttgttt ttctctcttg cacagcccaa actttctcat aagtcctaaa tgacatttca 300  
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 tctcatagtc tcaactctgtt tgcactcac 389

<210> 31712  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 31712

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 cctcggaagc aaaaaagaat agaagggaaa ttccaatct aaaaataaaa aatagagaag 120  
 gaaaattccc aatgaaagag aaaaaagaaa agacaggaaa ttccaatca aagaatggga 180  
 gaaagcacia agacaagaaa gaacattccc aaccaaagaa tgggaaaagt aactaacaca 240  
 acacaacagc tctcgttcaa agaaactaga agaatgtgc agaaaggctt tttgaccaga 300  
 caatatctga acaatacaga attgtcacca aatgaaca 338

<210> 31713  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 31713

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 acaagttcgc taagtgcacc gcttcatctt actaagcgca ccacttcagt tcatctgcta 180